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August 1984

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# **Retrieval Procedures For Hydrologic Data From ARS Experimental Watersheds in the United States**

## **(REPHLEX)**

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United States  
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Agriculture

Agricultural  
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Service

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# **Retrieval Procedures For Hydrologic Data From ARS Experimental Watersheds in the United States**

## **(REPHLEX)**

By  
J.L. Thurman  
R.T. Roberts  
J.B. Burford



## PREFACE

This publication describes the scope and use of REtrieval Procedures for HydroLogic Data from ARS EXperimental Watersheds (REPHLEX). The REPHLEX system consists of several interactive computer procedures developed to gain access to the ARS Water Data Bank. The data stored in the bank were collected by various groups and individuals within and without ARS for specific research projects that are in progress or have been completed. These data can be used for many other purposes. In an effort to provide research scientists and engineers with consistently high quality data from its centralized bank, the Water Data Laboratory has developed REPHLEX procedures to decrease the turn-around time and interaction necessary to gather data sets that might pertain to a specific research project.

This publication is intended to serve as a training manual and reference guide to retrieve, condense, and reformat precipitation and runoff files stored in the ARS Water Data Bank in order to produce data sets that research scientists can analyze and evaluate in terms of their needs.

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**REtrieval Procedures for HydroLogic Data  
From ARS EXperimental Watersheds  
in the United States (REPHLEX)**

by J. L. Thurman, R. T. Roberts, and J. B. Burford<sup>1/</sup>

Hydrologic research programs have been of primary concern in the U.S. Department of Agriculture (USDA) since they were initiated during the late 1920's and early 1930's. Programs started by the Soil Conservation Service (formerly the Soil Erosion Service) were transferred to the Agricultural Research Service (ARS) during the early 1950's. Research activities have been continuous at some locations since the early 1930's. Studies have been made on more than 600 watersheds.

In 1956, publication of annual summaries of hydrologic data from the experimental watersheds was started as a cooperative effort involving several ARS Watershed Research Centers. Personnel in Beltsville, Md., assembled, reviewed, and published these summaries. The Water Data Laboratory (WDL), formerly the Hydrologic Data Laboratory, was established in 1969 with a mission that included the development of a storage and retrieval system for hydrologic data from the ARS Watershed Research Centers in addition to publication compilation.

Hydrologic data are stored in the ARS Water Data Bank in sufficient detail to produce continuous hyetographs, hydrographs, and accumulation graphs for individual storms. Daily, monthly, and annual accumulations can be derived or extracted from the data. The USDA Washington Computer Center (WCC) facilities are used by the WDL through remote and interactive terminals.

Procedures were developed for making oral and written requests to the WDL for copies of the data stored in the ARS Water Data Bank. Water Data Laboratory personnel, working with interactive terminals, submit computer instructions to search out and transfer the requested data to transportable media. If copies of the data are requested on magnetic tape, user tapes are sent to the WCC by the WDL. The data are copied and the user tapes are then returned to the WDL for mailing to the requester. The cycle is normally completed within 4 to 5 days, but uncontrollable circumstances may result in undesirable delays. Advantages of the procedure are that working relationships between the data users and the WCC (fund exchange arrangements) are not required and that all necessary computer expertise is provided by the WDL.

Increased computer-related capabilities in general but particularly within the USDA, the apparent increased interest in water

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1/ Computer specialists and hydrologist, respectively, Water Data Laboratory, Plant Physiology Institute, Beltsville Agricultural Research Center, Beltsville, Md. 20705.

management, and the expanding awareness of the existence of the ARS Water Data Bank have encouraged the WDL to decrease the time lag in responding to data requests. Accordingly, the WDL has developed "RETrieval Procedures for HydroLogic Data from ARS EXperimental Watersheds" (REPHLEX) so that users of ARS water data may gain access to the ARS Water Data Bank interactively. REPHLEX procedures have been designed to be self-prompting to promote usability with minimum training in computer techniques and the internal mechanics of the ARS Water Data Bank. It is recommended that the user of these procedures review the general information in Chapters 2 and 3 in detail before referring to Chapter 4, which describes individual procedures.

## 1. ARS WATER DATA BANK

**General Description** The ARS Water Data Bank contains precipitation and runoff data collected from about 305 individual study areas operated by 11 ARS Watershed Research Centers. The watersheds range from less than 0.2 ha (0.5 acre) to over 536 square km (207 square miles). Rain gage networks have from 1 to more than 200 recording stations per watershed. Length of records for individual stations varies from 1 to 45 years.

Most of the data obtained from the Watershed Research Centers are currently being processed and handled by computer. Hydrologic data collected to support specific studies at the several Watershed Research Centers are converted to computer-compatible media, copied, and sent to the WDL after a reasonable lag time. Data collected prior to the advent of computer processing have been converted from tabular or analog form to computer-accessible media by the Research Centers or the WDL. The WDL has an ongoing program to recapture and convert to computer-accessible media potentially useful data from historical files. All data are reviewed, manipulated into standard formats, checked for integrity, and stored on magnetic tapes at the Washington Computer Center.

The ARS Water Data Bank is organized by station year of data, which is used in this publication to indicate a calendar year of either precipitation or runoff data from a specific recording station. Most of the data stored in the ARS Water Data Bank are in breakpoint form, i.e., an instantaneous rate (for runoff) or accumulation (for precipitation) recorded with an associated time. Raw breakpoint data are processed to provide elemental hydrologic information, such as accumulations, intensities, and volumes. Identification, applicable information codes, and calculated accumulation values are added to create a processed record (see exhibits 1 and 2, pp. 16 and 17). The processed breakpoint data are stored in sequential files as one breakpoint record per logical computer record. Each station year of data is stored as a cataloged data set on magnetic tape. There are, as of December 1982, over 11,000 such data sets, 7,000 and 4,000 station years of precipitation and runoff data, respectively, stored in the ARS Water Data Bank. These files are referred to as storage and retrieval (S&R) files.

In addition to the breakpoint data stored in the ARS Water Data Bank, there are a limited number of stations where only daily accumulation values are available. These data are noted in the "Summary of the ARS Water Data Bank" (Appendix B) and can be retrieved only by the procedures **DPQRY** and **DQQRY** (see Chapter 4, pp. 20 and 24).

Precipitation and runoff records are considered basic for most hydrologic research and are usually obtained continuously. Information is collected as needed for each study on temperature, evaporation, wind movement, soil moisture, water quality, land use, and cover conditions, together with topographic and geologic information. Some of this descriptive and environmental information, such as temperature, cover conditions, land use, and soils, is included in a series of hydrologic publications<sup>2/</sup> and is obtainable from the WDL. The WDL also maintains an index of other water-related data collected by the Watershed Research Centers and other research organizations. For copies of the publications and information concerning other water-related data contact--

Water Data Laboratory  
Rm. 236, Bldg. 007, BARC-W  
Beltsville, Md. 20705  
(Phone: FTS 344-3550, COMM. 301-344-3550)

#### Data Security

The development, maintenance, and retrieval of large volumes of data, as in the ARS Water Data Bank, would be cost-prohibitive without the use of magnetic-tape storage. However, magnetic tape is vulnerable to edgewear of the plastic film, uncontrollable environment, such as high temperature and humidity, and stray magnetic fields. The files must also be protected from accidental operator or user error. Special precautions have been taken to maintain information integrity of the ARS Water Data Bank.

Accidental user errors are eliminated by restricting accessibility. **REPHLEX** procedures are designed to be "read only." The primary principle of this system is to copy data from the ARS Water Data Bank to "user files," which can be manipulated by the user. The S&R files are read only by previously tested procedures.

The data bank files are kept in the WCC tape-storage facilities, where a controlled environment is maintained. In addition to the S&R files, which are accessible via **REPHLEX** procedures, the WDL maintains at least two more copies of the data on magnetic tape. The WDL has also developed techniques using 16-mm Computer Output Microfilm as a medium for archival copies of the data. These microfilm images, arranged in 'CINE' mode

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<sup>2/</sup> Burford, J. B., J. L. Thurman, and R. T. Roberts. Hydrologic data for experimental agricultural watersheds in the United States, 1973. U.S. Dept. Agr. Misc. Pub. 1420, 404 pp. 1982. Also 16 earlier volumes (see MP 1420, p. 2).

format with 50 records per frame, can be used with Computer Input Microfilm techniques to recreate magnetic tape files.<sup>3/</sup> The microfilm is stored in WDL fireproof facilities.

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<sup>3/</sup> Burford, J. B., and J. M. Clark. Computer input microfilm (CIM) feasibility study. U.S. Dept. Agr. ARS-NE-46, 6 pp. 1974.

## 2. ADMINISTRATIVE INFORMATION

### Obtaining Authorization to Use the WCC Computer System

Access to **REPHLEX** procedures to retrieve data from the ARS Water Data Bank is available to anyone with access to the WCC computer system. The WCC maintains an IBM 370/3033/3042 Attached Processor system with an IBM 370/4341 as an auxiliary system. All processors run under the MVS operating system with the JES2 job entry subsystem and time-share option (TSO). Access to the system may be through interactive time-share terminals in asynchronous mode at line speeds from 110 to 1200 bits per second (BPS) or through remote job entry (RJE) terminals in synchronous mode at line speeds of 2400 or 4800 BPS for dial-up lines. Most teletype-compatible and Remote 3270-compatible terminals can be used to gain access to the WCC system.

A reimbursable arrangement between the WCC and user to permit the exchange of funds to cover computer use costs can be made by contacting--

Resource Management Staff  
USDA-Washington Computer Center  
Rm. S-159, South Building  
12th and Independence Avenue, SW.  
Washington, DC 20280  
(Phone: 202-447-7975)

Currently WCC restricts the establishment of reimbursable agreements to government agencies. After arranging for a reimbursable agreement with the WCC, users should contact their security officers to obtain logon identification ("userids"), passwords, and a remote number for batch processing. The Resource Management Staff can provide contacts for the appropriate security officer. ARS organizations should contact--

Agency Security Officer  
Communications and Data Services Division  
Rm. 003, NAL  
Beltsville, MD 20705  
(Phone: 301-344-2869)

### Establishing Communications

The process for establishing data communications with the WCC is described in detail in the "WCC User's Handbook" (available from the WCC User Service). For most teletype-compatible terminals, the users should dial a valid telephone number at the WCC. The telephone will answer with a high-pitched tone indicating that the communications front-end processor is available. The users then switch from voice to data mode according to the type modem being used (e.g., the phone is placed in an acoustical coupler or the **DATA** button is pressed on telephone

company data sets). When communications are established, the users should identify themselves to the system by pressing the **RETURN** key on their terminal and entering the following command:

```
LOGON userid
```

The system will respond by asking for a password. After the password is entered, the system will list any general messages. The terminal is then ready for data requests.

### 3. COMMON ATTRIBUTES OF REPHLEX PROCEDURES

#### Initiating REPHLEX Procedures

REPHLEX procedures are self-prompting, with step-by-step instructions displayed on an interactive time-share terminal for the data requester. All the procedures are initiated by entering the command--

```
EXEC 'SEANZWD.CLIB(xxxxx)'
```

where xxxx is the procedure name. The user will then be prompted for required information. Although some procedures have special key words to terminate a session, pressing the **BREAK** key (**ATTENTION** key on some terminals) will always end a procedure. REPHLEX prompts are intended to be self-explanatory wherever possible. At the same time, lengthy prompts are slow, awkward, and expensive. In order to keep prompts as short as possible, some words and phrases are abbreviated. All abbreviations will be obvious or will have been previously used in an unabbreviated form.

#### Job Priority

Several of the REPHLEX procedures generate batch jobs, which are released to the operating system for execution according to the WCC's queuing system. The execution of these batch jobs can be accelerated by raising the job priority at an additional cost to the data requester. In order to minimize costs, the priority parameter can be set to deferred processing. The priority for "normal" turn-around at the WCC is 3. The following table shows valid priorities at the WCC and their effect on cost and turn-around time:

<u>Job priority</u>	<u>Service requested</u>	<u>Rate differential</u>	<u>Typical turn-around time</u>
13	High priority	3.00	0.5 hour
3	Normal processing	1.00	4 hours
2	Deferred overnight	.75	Overnight

#### Routing SYSOUT Files

REPHLEX procedures that generate batch jobs always request a destination for the printed output. For users with access to an RJE terminal with a printer, the response to the prompt should be their remote number (as assigned by the Agency Security Officer) in the form RMTxx, where xx is the remote number. For users without access to an RJE terminal, the response to this prompt will be LOCAL, which will cause the printed output to be routed to a printer at the WCC. Arrangements can be made with the WCC User Service for pickup or delivery of these listings.

For the data requester with access only to an interactive time-share terminal, the WDL has provided another alternative. Some procedures prompt for MSGCLASS. The default for this prompt is always A, which directs the printed output to a line printer.

The data requester may respond to this prompt by entering Q or T, which will cause the printed output to be held on a special SYSOUT queue. The data requesters can retrieve this output via their interactive terminals by entering the command--

```
LISTJES jobname  
or  
OUTPUT jobname
```

The LISTJES command has several subcommands, which can be used to retrieve all or part of the output. Some of these include--

```
FF - File forward; move from one SYSOUT file to  
      the next.  
PFxxx - Page forward specified number of pages.  
PBxxx - Page backward specified number of pages.  
QUIT - End session.  
FIND /xxx/ - Find a specified string.  
      - Pressing RETURN key displays next 40 records of  
        the current SYSOUT file at the terminal.  
RELEASE DEST(RMTxx) - Release SYSOUT file to remote  
      number xx. Other SYSOUT files for the job will  
      remain on the spool.
```

In order to remove output from the queue, the user can enter--

```
OUTPUT jobname DELETE
```

which will remove the job from the system, or

```
OUTPUT jobname DEST(RMTxx)
```

which will route the job to the remote specified.

For a more complete description of the LISTJES and OUTPUT commands, refer to the "TSO/SUPERSET Utilities" and the "WCC User's Handbook," respectively. To obtain these manuals, contact the WCC User Service.

#### Disk and Magnetic Tape Files

Several **REPHLEX** procedures prompt for input or output data set names for disk or magnetic tape files. Each prompt contains the phrase "fully qualified." This refers to TSO naming conventions, which require that all data sets conform to the following format:

```
Userid.user-supplied-name.descriptive-qualifier
```

The combination of the operator's "userid" and a "user-supplied-name" results in a fully qualified data set name. A "descriptive-qualifier," such as DATA, CNTL, TEXT, may be added

Identification  
Codes

to the name, but it is not necessary. For a more complete explanation of the WCC data set naming conventions, refer to the "WCC User's Handbook."

Magnetic tape files generated by **REPHLEX** procedures are standard-label, 9-track, and 6250 bits per inch (BPI). Record lengths and blocksizes are described for each procedure. Disk files are stored on resident 3350 disk files.

ARS watershed areas have been assigned location numbers from 1 to 77. Within specific locations, individual watersheds have been assigned three-digit numbers by the Research Centers. A combination of the two numbers results in a five-digit watershed identification. For a cross-reference of the WDL watershed identification numbers and local identification codes, refer to Appendix A.

**REPHLEX** procedures may prompt for location and watershed number separately or as one unit. Location numbers must be entered as a two-digit number. Thus Vero Beach, Fla., must be entered as 08 rather than 8. Individual watershed numbers must be entered as zero-filled three-digit numbers when requested by a **REPHLEX** procedure. For example, watershed W-2 at Vero Beach has been assigned watershed number 002. When a watershed identification is requested, a five-digit number must be entered, i.e., 08002 for watershed W-2 at Vero Beach.

Rain gages may be considered as parts of networks or individually. They also may be so situated that they apply to more than one watershed. For this reason the WDL does not attempt to tie a specific rain gage recording station to a specific watershed area. Maps giving locations of most rain gages are available in the USDA Miscellaneous Publication series "Hydrologic Data for Experimental Agricultural Watersheds in the United States."<sup>4/</sup> The WDL rain gage identification is a field of six alphanumeric characters. It consists of the original code used by the Watershed Research Center right-justified in a six-character field (after eliminating any special characters) and zero filled. Thus, a rain gage coded as 75-A on a watershed map will be identified as 00075A. All **REPHLEX** procedures prompting for a rain gage identification will require all six characters.

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<sup>4/</sup> See footnote 2, p. 4.

## Overview of REPHLEX Procedures

**WDLCOPY** is the basic **REPHLEX** procedure used to retrieve data from the ARS Water Data Bank. This procedure copies one or more station years of data to one of three destinations--magnetic tape files, online disk files, or printed listings. Either precipitation or runoff data may be retrieved. The output files are in the WDL standard format.

**IDENT** provides the data requester with basic information about a watershed, such as location, original identification, acreage, latitude, and longitude. This procedure has no output other than the information returned to the user's terminal. Several generic searches may be made.

**DPQRY** provides daily totals for precipitation data stored in the ARS Water Data Bank. Multiple rain gages for multiple years of data can be requested. Output can be either printed or copied to magnetic tape. Printed tables provide monthly and annual precipitation amounts as well as daily totals.

**DQQRY** provides either mean daily discharge rates or runoff volumes. Multiple watersheds for multiple years of data can be requested. Output can be either printed or copied to magnetic tape. Printed tables provide monthly and annual discharge volumes as well as daily totals.

**PLOTYR** is an interactive graphics program, which plots rainfall hyetographs superimposed over runoff hydrographs for intervals up to 1 month. This routine is useful in selecting storm events. Selected parts of the same timespan can be plotted multiple times. Maximum peak flows are provided at the beginning of each month of data. Rainfall and runoff data must be available in online disk files in the WDL standard format (can be built using the **WDLCOPY** procedure). Plots may be generated either on a graphics screen or on a flatbed plotter using various types of equipment.

**SASPLOTP** produces printer plots for rainfall hyetographs or accumulation curves. Specific timespans may be specified by the data requester. Multiple plots may be requested for each station year of data.

**SASPLOTQ** produces printer plots for runoff hydrographs. Specific timespans may be specified by the data requester. Multiple plots may be requested for each station year of data.

**SASGRAFP** is an interactive graphics program, which plots rainfall hyetographs or accumulation curves for selected time periods. Multiple plots may be generated during one session. Data for this procedure must be available in an online disk file in the WDL standard format (can be built using the **WDLCOPY**

procedure). Specific timespans may be specified by the data requester. Plots may be generated either on a graphics screen or on a flatbed plotter using various types of equipment.

**SASGRAFQ** is an interactive graphics program, which plots runoff hydrographs for timespans specified by the data requester. Multiple plots may be generated during one session. Data for this procedure must be available in an online disk file in the WDL standard format (can be built using the **WDLCOPY** procedure). Plots may be generated either on a graphics screen or on a flatbed plotter using various types of equipment.

**SPRDSHT** provides updated versions of the "Summary of the ARS Water Data Bank" (see Appendix B). The data requester may specify one or more locations to be printed.

**NEWS** provides a user of **REPHLEX** procedures with information pertaining to changes and additions to the system.

#### Cost Summary

Data requesters will be billed via their reimbursable agreements with the WCC for the computer costs of running **REPHLEX** procedures. Many variables are associated with these costs, but in general the following guidelines may be used to estimate computer expense:

- (1) Copying data using the **WDLCOPY** procedure at priority 3 (normal) costs approximately \$3 plus \$0.35 per station year.
- (2) Running the **IDENT** procedure costs approximately \$0.85 per session, which is largely dependent on online TSO time rather than program execution expense and should be interpreted accordingly.
- (3) Using **DPQRY** or **DQQRY** procedures at normal priority costs approximately \$5.10 per run. Multiple daily tables will increase the minimum by approximtely \$0.025 per daily table (station year of data).
- (4) Running **PLOTYR** costs approximately \$0.50 per plot frame. About 30 seconds are required to create a screen plot and 1.5 minutes to create a pen plot at 1200 BPS. Selecting a storm event from a station year of data will typically require 30 plot frames with no prior knowledge of the data for a total expense of about \$15.
- (5) Producing a printer plot using **SASPLOTP** or **SASPLOTQ** costs approximately \$1.05 per plot at normal priority.

(6) Running **SASGRAFP** or **SASGRAFQ** is approximately \$3 per plot frame. About 30 seconds are required to produce a screen plot and 1.5 minutes to produce a pen plot at 1200 BPS.

(7) A complete summary listing using the **SPRDSHT** procedure at normal priority costs about \$2.60. The minimum for listing one location is approximately \$1.30.

(8) The cost of running **NEWS** will vary depending on the amount of information displayed, but normally it will be insignificant.

Billing rates are changed regularly by the WCC to reflect their expenses. These estimates only reflect conditions at the time they were prepared.

#### 4. REPHLEX PROCEDURES AND SAMPLE SESSIONS

##### WDLCOPY

This **REPHLEX** procedure copies breakpoint data to any one of three destinations--magnetic tape files, online disk files, or printed listings. Either precipitation or runoff may be retrieved but not simultaneously. Multiple years of data for multiple stations and multiple locations may be copied to one output file. Only one output file will be generated for each session of **WDLCOPY**. Printed output of selected data can be routed to an RJE terminal or held for later retrieval by an interactive terminal. A report is generated for each session summarizing data that have been successfully selected. These reports are held for regeneration at the interactive terminal if MSGCLASS=Q is specified.

**WDLCOPY** will prompt the data requester for specific information as to which data are desired and where the copy should go. The user will be prompted for jobname, project number, msgclass, and destination of printed output as described in Chapter 3. Three types of output are displayed as options before the user is prompted for an output data type. The user will respond with one of the codes displayed. If the output data type requested is magnetic tape or disk, the user is prompted for an output data set name. This must be a fully qualified name per IBM and WCC standards (see Chapter 3, p. 9).

Following is a sample session of **WDLCOPY**. Operator entries are shown as lowercase letters and **REPHLEX** prompts as uppercase letters. All responses must be concluded by pressing the **RETURN** key. Pressing the **RETURN** key immediately in response to a prompt will generate a space (null response) as shown in the sample session to repeat a location number. In this sample session, all years of data for watersheds 69030 and 69031 will be copied to a magnetic tape. Note that a null response to the ENDING LOCATION NUMBER prompt causes the location number 69 to be repeated. All inclusive data are copied by this procedure. The years 00 (BEGINNING) to 99 (ENDING) cause all available data for these two watersheds (everything between watersheds 30 and 31) to be copied to the tape file. To prevent costly errors, the **WDLCOPY** procedure will copy a maximum of 150 years in one request.

Output of the **WDLCOPY** procedure is in the standard (S&R) format used at the Water Data Laboratory. The record length for precipitation and runoff files is 60 and 70 characters, respectively. Blocksize for disk and tape files is 4,620 and 12,600 characters, respectively, for both precipitation and runoff. Record layouts are provided in exhibits 1 and 2 for precipitation and runoff.

Sample session

```
exec 'seanzwd.clib(wdlcopy)'
ENTER JOBNAME:
seazcopy
ENTER PRIORITY:
1
ENTER PROJECT NUMBER:
9999999999
ENTER MSGCLASS (DEFAULT=A):

ENTER DESTINATION:
rmt29
ENTER TYPE DATA TO BE COPIED (P=PRECIP, Q=RUNOFF):
q
ENTER OUTPUT DATA TYPE (T=TAPE, D=DISK, P=PRINT):
t
ENTER OUTPUT DSN (FULLY QUALIFIED):
ars41.169.mstrq.part2
ENTER BEGINNING LOCATION NUMBER (2 DIGITS):
69
ENTER BEGINNING WATERSHED NUMBER (3 DIGITS):
030
ENTER BEGINNING YEAR (2 DIGITS):
00
ENTER ENDING LOCATION NO. OR SPACE TO REPEAT BEG LOC:

ENTER ENDING WATERSHED NO. OR SPACE TO REPEAT BEG WATERSHED:
031
ENTER ENDING YEAR OR SPACE TO REPEAT BEG YEAR:
99
IF YOUR REQUEST IS COMPLETE, ENTER END; ELSE SPACE:
end
DATA WILL BE COPIED TO: ARS41.L69.MSTRQ.PART2
PRINT WILL BE ROUTED TO RMT29
READY
```

0	1	2	3	4	5	5	6		
1.....0.....0.....0.....0.....0.....0.....6....0									
25001000004	1	5	63	300	0.0000	0.00	238.04	0	471
25001000004	1	5	63	2400	0.0057	0.12	238.12	S	472
25001000004	1	6	63	1500	0.0053	0.08	238.20	S	473
25001000004	1	10	63	600	0.0000	0.00	238.20	0	474
25001000004	1	10	63	2400	0.0006	0.01	238.21	S	475

<u>Data column</u>	<u>Precipitation data field description</u>	<u>FORTRAN format</u>
1	Carriage control character.	I1
2-3	Unique identification number for each location.	I2
4-6	Numeric identification for each station (unique for location).	I3
7-12	Unique rain gage identification (alphanumeric).	A6
13-21	Date of occurrence (month, day, year).	3I3
22-26	Time of day that activity occurred (24-hour clock).	I5
27-34	Precipitation intensity, in inches per hour, that occurred in time interval starting with previous time and ending with time recorded.	F8.4
35-40	Amount of precipitation in inches that occurred in time interval defined for intensity.	F6.2
41-47	Precipitation accumulation in inches that occurred during year through recorded time.	F7.2
48	Blank.	1X
49	Precipitation type codes: 0 or blank = rainfall, S = snow, N = rain and snow, L = sleet, H = hail, M = mixed, T = trace of precipitation, E = estimated value.	A1
50	Blank.	1X
51	Precipitation codes: 0 or blank = normal reading, 1 = total value for a series of days proportioned equally among the days.	I1
52-56	Sequential number. Records are numbered sequentially through each year of data.	I5
57-60	Blank columns. Record length = 60.	4X

Exhibit 1.--Standard precipitation data format.

0	1	2	3	4	5	6	6	7
1.....0.....0.....0.....0.....0.....0.....0....0....0....0....0....0								
25001	10	18	41	2127	0.00	.000	0.0000	0.0000
25001	10	18	41	2200	0.00	141.791	0.0051	0.0014
25001	10	18	41	2210	0.00	182.612	0.0040	0.0008
25001	10	18	41	2232	0.00	201.233	0.0015	0.0010
25001	10	18	41	2250	0.00	178.591	0.0038	0.0008

<u>Data column</u>	<u>Runoff data field description</u>	<u>FORTRAN format</u>
1	Carriage control character.	A1
2-3	Unique identification number for each location.	I2
4-6	Numeric identification for each station (unique for location).	I3
7-15	Date of occurrence (month, day, year).	3I3
16-20	Time of day that activity occurred (24-hour clock).	I5
21-26	Flow depth in feet, if available.	F6.2
27-36	Runoff rate in cubic feet per second.	F10.3
37-43	Runoff rate in inches per hour.	F7.4
44-50	Runoff amount in inches that occurred in time interval starting with previous time and ending with time recorded.	F7.4
51-58	Runoff accumulation in inches that occurred during year through recorded time.	F8.4
59	Blank.	1X
60	Estimate code: E = estimate, blank = nonestimated.	A1
61	Rate type code: 0 or blank = rates in record are instantaneous, 1 = rates are averages for time interval.	I1
62-66	Sequential number. Records are numbered sequentially through each year of data.	I5
67-70	Blank columns. Record length = 70.	4X

Exhibit 2.--Standard runoff data format.

**IDENT**

The **IDENT** procedure provides general information about a watershed. It is completely interactive. Responses are displayed immediately at the terminal. The first line of information contains the identification of the watershed used by all **REPHLEX** procedures, followed by its location and local identification. Watershed area in acres is given. If more than one area value is appropriate (relocation of a weir, surveying correction, or changes in topography can cause areas to be modified), all values and corresponding periods of record are displayed. The word "PRESENT" under "PERIOD FOR ACREAGE" implies that the watershed is currently being monitored. A data field titled "AVAIL" provides beginning and ending years for runoff data accessible through **REPHLEX** procedures. Latitude and longitude are given in degrees, minutes, and seconds when available under "LAT" and "LONG."

Several searches can be made using this procedure to query for specific watershed characteristics. The "individual watershed" search will display all available information concerning a specific watershed. The "location" search will display all watersheds for a specific location number. The data requester should use this option with caution as there are locations with as many as 50 watershed entries. The "watershed area" search can be very useful for the data requester desiring to check on the availability of data from specific sized watersheds but should be used with discretion as a very long display can be generated. Approximately 30 percent of the 670 watersheds available have areas of 1-5 acres. The "state" search will display all watersheds for a specific State. This option should be used with caution since some States will produce a display of about 100 watersheds. The "latitude-longitude" search prompts for coordinates to select watersheds within a rectangle. It should be used with care as very long displays can be generated.

All five types of searches may be made in one session. Any time the procedure issues a prompt, the data requester may enter MENU to have the search options displayed and a new search initiated. END can be entered in response to any prompt to conclude the session.

Following is a sample session of **IDENT**. Operator entries are shown as lowercase letters and **REPHLEX** prompts as uppercase letters. All responses must be followed by pressing the **RETURN** key. Pressing the **RETURN** key by itself in response to a prompt will generate a space (null response).

Sample session

```
exec 'seanzwd.clib(ident)'  
*****
```

NOTE: ENTER 'END' AT ANY TIME TO END YOUR SESSION.

ENTER 'MENU' AT ANY TIME TO BEGIN A NEW SEARCH.

```
*****  
THE FOLLOWING SEARCHES ARE AVAILABLE WITH THIS PROCEDURE:
```

I - INDIVIDUAL WATERSHED  
L - LOCATION  
A - WATERSHED AREA  
S - STATE  
C - LATITUDE-LONGITUDE

```
*****  
ENTER THE LETTER CODE FOR YOUR SEARCH:
```

i

ENTER A WATERSHED IDENTIFICATION (5 DIGITS):

08005

08005        VERO BEACH     FL    W-5

ACRES	PERIOD FOR ACREAGE	AVAIL	LAT	LONG
*****	*****	*****	*****	*****
22650.	01/01/64 12/31/66	1964-1976	271840	805344
20992.	01/01/67 PRESENT			

ENTER A WATERSHED IDENTIFICATION (5 DIGITS):

end

READY

**DPQRY**

This procedure builds daily precipitation values and outputs them in table form to paper or to magnetic tape. Multiple years of data from multiple rain gages and multiple locations may be requested. Daily values can be derived from two sources of data, i.e., S&R files, which contain breakpoint data, or daily files, which are maintained primarily to cover gaps in the breakpoint (S&R) files. Unless a user is specifically working with only breakpoint or only daily values, both sources should be specified to give the most complete coverage. Print-out of daily tables can be routed to an RJE terminal or held for later access by a TSO terminal.

An example of a typical session follows. Operator entries are shown as lowercase letters and prompts as uppercase letters. All responses must be concluded by pressing the **RETURN** key. Pressing the **RETURN** key in lieu of a response generates a space (null response). See Chapter 3 for a detailed explanation of the prompts for priority, msgclass, destination, and fully qualified data set names. No listing will be generated by this sample session since the operator has specified that **MSGCLASS=Q**. In order to retrieve the daily tables that will be generated, the operator will subsequently enter the command **OUTPUT SEAZDP69** from the interactive terminal. To retrieve all years of record for a particular station, it is allowable to enter 00 as a beginning year and 99 as an ending year. Likewise it is possible to retrieve all data available for a specific location by entering AAAAAA as a beginning rain gage identification and 999999 as an ending rain gage identification. Refer to the "Summary of the ARS Water Data Bank" (Appendix B) before making all-inclusive data requests to avoid excessive printouts.

Output of the sample session is daily tables (see exhibit 3). The output to magnetic tape has a record length of 100 characters and a blocksize of 9,400 characters. A record layout is provided in exhibit 4.

Sample session

```
exec 'seanzwd.clib(dpqry)'
ENTER JOBNAME:
seazdp69
ENTER PRIORITY:
2
ENTER PROJECT NUMBER:
9999999999
ENTER MSGCLASS (DEFAULT=A):
q
ENTER DESTINATION:
rmt29
P - PRINTED TABLES ONLY
T - TAPE FORMAT ONLY
B - BOTH TAPE AND PRINTED TABLES
ENTER TYPE OUTPUT:
p
S - S&R DATA ONLY
D - DAILY DATA ONLY
B - BOTH S&R DATA AND DAILY DATA
ENTER INPUT FILE OPTION:
s
ENTER BEGINNING LOCATION NUMBER (2 DIGITS):
69
ENTER BEGINNING RAIN GAGE ID (6 CHAR.):
aaaaaa
ENTER BEGINNING YEAR (2 DIGITS):
00
ENTER ENDING LOC NO. OR SPACE TO REPEAT BEG LOC:

ENTER ENDING RAIN GAGE ID OR SPACE TO REPEAT BEG RAIN GAGE ID:
999999
ENTER ENDING YEAR OR SPACE TO REPEAT BEG YEAR:
99
IF YOU HAVE NO MORE QUERIES, ENTER END; ELSE SPACE:
end
JOB SEAZDP69(JOB03911) SUBMITTED ** FREE ALL FILES **
END OF DPQRY
READY
```

LOCATION = CHICKASHA, OKLAHOMA  
RAINAGE = 000187

RUN DATE  
01/05/83

LOC	GAGE	YEAR	DAY	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOW	DEC	DAY
L69	RG000187	1966	1	.00	.00	.00	.00	.19	.00	.00	.00	.00	.00	.00	.00	.00
L69	RG000187	1966	2	.00	.00	.00	.00	.00	.00	.32	.00	.00	.00	.00	.00	.00
L69	RG000187	1966	3	.00	.00	.00	.00	.00	.00	.64	.00	.00	.00	.00	.00	.00
L69	RG000187	1966	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.04
L69	RG000187	1966	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
L69	RG000187	1966	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
L69	RG000187	1966	7	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00
L69	RG000187	1966	8	.00	.00	.00	.00	.00	.41	.00	.00	.00	.02	.00	.00	.00
L69	RG000187	1966	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.12	.02	.02	.02
L69	RG000187	1966	10	.00	.00	.00	.05	.00	.00	.06	.00	.00	.00	.00	.00	.00
L69	RG000187	1966	11	.00	.00	1.20	.00	.36	.00	1.72	.00	.00	.00	.00	.00	.00
L69	RG000187	1966	12	.00	.00	.13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
L69	RG000187	1966	13	.00	.02	.00	.06	.00	.00	.00	.10	.98	.00	.00	.00	.00
L69	RG000187	1966	14	.00	.00	.00	.00	.00	.00	.00	.00	.53	.00	.00	.00	.00
L69	RG000187	1966	15	.00	.00	.00	.00	.00	1.11	.00	.00	.00	.00	.00	.00	.00
L69	RG000187	1966	16	.00	.02	.00	.00	.00	.00	.18	.00	.00	.24	.00	.00	.00
L69	RG000187	1966	17	.00	.00	.00	.00	.00	.00	.22	.00	.00	.16	.37	.00	.00
L69	RG000187	1966	18	.00	.02	.00	.06	.00	.00	.00	.00	.00	.55	.00	.00	.00
L69	RG000187	1966	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.87	.00	.00	.00
L69	RG000187	1966	20	.00	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.00
L69	RG000187	1966	21	.00	.21	.00	.00	.15	.00	.00	.92	.00	.00	.00	.00	.00
L69	RG000187	1966	22	.00	.00	1.69	.00	.00	.00	.00	.14	.00	.00	.37	.00	.00
L69	RG000187	1966	23	.00	.00	.00	.88	.00	.00	.00	.91	.94	.00	.00	.00	.00
L69	RG000187	1966	24	.00	.00	.00	.00	.00	.00	1.86	.31	.00	.00	.00	.00	.00
L69	RG000187	1966	25	.00	.00	.00	1.18	.00	.00	.00	.00	.00	.00	.00	.00	.00
L69	RG000187	1966	26	.00	.15	.00	.50	.00	.00	.00	.00	.00	.00	.48	.00	.00
L69	RG000187	1966	27	.00	.61	.00	.00	.00	.00	.00	.00	.00	.27	.00	.00	.21
L69	RG000187	1966	28	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00	.00
L69	RG000187	1966	29	.00	.00	.00	.00	.00	.00	.00	1.84	.00	.00	.00	.00	.00
L69	RG000187	1966	30	.00	.00	.00	.10	.00	.00	.59	.03	.12	.00	.00	.01	.30
L69	RG000187	1966	31	.00	.00	.00	.00	.00	.00	.26	.00	.00	.00	.00	.00	.01
MONTHLY ACCUMULATION																
		.00	1.01	1.33	4.41	.90	1.91	3.36	8.21	2.94	.39	.60	.30	=====	=====	=====

0699 RECORDS PROCESSED

YEARLY ACCUMULATION = 25.36

Exhibit 3.--Daily precipitation table.

DAILY PRECIPITATION TABLE

<u>Data column</u>	<u>Data field description</u>	<u>FORTRAN format</u>
1-2	Unique identification number for each location.	I2
3	Blank.	1X
4-9	Unique rain gage identification (alphanumeric).	A6
10	Blank.	1X
11-12	Year.	I2
13	Blank.	1X
14-15	Day of month.	I2
16	Blank.	1X
17-87	12 accumulations (inches) and precipitation type codes* (1 for each month of year).	12(F5.2,A1)

Each year consists of 31 records followed by a record of all 9's.

\* Precipitation type codes: Blank = rainfall, S = snow, N = rain and snow, L = sleet, H = hail, M = mixed, T = trace of precipitation, E = estimated value, Z = total value for a series of days proportioned equally among the days.

Exhibit 4.--Daily precipitation tape format.

**DQQRY**

This procedure builds daily discharge values and outputs them in table form to paper or magnetic tape. Multiple years of data from multiple stations and multiple locations may be requested. Daily values may be requested in either volume (in/day) or mean daily discharge rate (cfs). Daily values can be derived from two sources of data, i.e., S&R files, which contain breakpoint data, or daily files, which are maintained primarily to cover gaps in the S&R files. Unless a user is specifically working with breakpoint or daily values, both sources should be specified to give the most complete coverage. Printout of daily tables can be routed to an RJE terminal or held for later access by a TSO terminal.

An example of a typical session follows. Operator entries are shown as lowercase letters and prompts as uppercase letters. All responses must be concluded by pressing the **RETURN** key. Pressing the **RETURN** key without entering a response generates a space (null response). See Chapter 3 for a detailed explanation of the priority, msgclass, destination, and fully qualified data set names. This sample session will retrieve daily tables for 5 years for watershed 002 at location 42. To retrieve all years of record for a particular station, it is permissible to enter 00 as a beginning year and 99 as an ending year. Likewise it is possible to retrieve all data available for a specific location by entering 000 as a beginning station identification and 999 as an ending station identification. Refer to the "Summary of the ARS Water Data Bank" (Appendix B) before making all-inclusive data requests to avoid excessive printouts.

Output of the sample session is to magnetic tape. The record length for this file will be 120 characters and the blocksize will be 9,600 characters. Exhibit 5 is a sample of a printed daily table. A record layout for the tape file is provided in exhibit 6.

Sample session

```
exec 'seanzwd.clib(dqry)'
ENTER JOBNAME:
seazdq42
ENTER PRIORITY:
1
ENTER PROJECT NUMBER:
9999999999
ENTER MSGCLASS (DEFAULT=A):
a
ENTER DESTINATION:
rmt29
P - PRINTED TABLES ONLY
T - TAPE FORMAT ONLY
B - BOTH TAPE AND PRINTED TABLES
ENTER TYPE OUTPUT:
t
ENTER OUTPUT FILE NAME (FULLY QUALIFIED):
seanzwd.sample
ENTER PRINTED OUTPUT FORM (0=CFS, 1=IN/DAY):
1
S - S&R DATA ONLY
D - DAILY DATA ONLY
B - BOTH S&R DATA AND DAILY DATA
ENTER INPUT FILE OPTION:
s
ENTER BEGINNING LOCATION NUMBER (2 DIGITS):
42
ENTER BEGINNING WATERSHED NUMBER (3 DIGITS):
002
ENTER BEGINNING YEAR (2 DIGITS):
73
ENTER ENDING LOC NO. OR SPACE TO REPEAT BEG LOC:

ENTER ENDING WATERSHED NO. OR SPACE TO REPEAT BEG WATERSHED:

ENTER ENDING YEAR OR SPACE TO REPEAT BEG YEAR:
77
IF YOU HAVE NO MORE QUERIES, ENTER END; ELSE SPACE:
end
JOB SEAZDQ42(JOB06642) SUBMITTED ** FREE ALL FILES **
END OF DQRY
READY
```

LOCATION = RIESEL  
ACREAGE = 579.00

RUN DATE  
01/04/83

No

TOTAL ACCUMULATED DISCHARGE IN INCHES/DAY

WSID	YEAR	DAY	JAN	FEB	MAR	APR	MAY	JUN	JLY	AUG	SEP	OCT	NOV	DEC	DAY
42002	1973	1	0	.0436	.1912	.0001	.0001	.3092	.0	.0	.0	.0	.0096	.0	1
42002	1973	2	.0003	.0063	.0735	.0001	.0001	.1164	.0	.0	.0	.0	.0022	.0	2
42002	1973	3	.2504	.0022	.0124	.0001	.0001	.7287	.0	.0	.0	.0	.0007	.0001	3
42002	1973	4	.0161	.0013	.0071	.0002	.0	.1261	.0	.0	.0	.0	.0005	.0002	4
42002	1973	5	.0048	.0009	.0037	.0002	.0001	.3804	.0	.0	.0	.0	.0001	.0001	5
42002	1973	6	.0023	.0008	.0039	.0	.0003	.1141	.0	.0	.0	.0	.0001	.0	6
42002	1973	7	.1418	.0008	.0033	.0002	.0182	.0078	.0	.0	.0	.0	.0001	.0	7
42002	1973	8	.0225	.0019	.1212	.0001	.0026	.0015	.0	.0	.0	.0	.0001	.0	8
42002	1973	9	.0042	.0152	.0047	.0002	.0005	.0004	.0	.0	.0	.0	.0	.0	9
42002	1973	10	.0014	.0043	.2693	.0002	.0	.0001	.0	.0	.0	.0	.0	.0	10
42002	1973	11	.0012	.0023	.0180	.0002	.0001	.0001	.0	.0	.0	.0	.9870	.0	11
42002	1973	12	.0012	.0016	.0041	.0	.0001	.0001	.0	.0	.0	.0	.0275	.0	12
42002	1973	13	.0043	.0013	.0023	.0001	.0001	.0	.0	.0	.0	.0	.3644	.0	13
42002	1973	14	.0100	.0007	.0015	.0	.0	.0	.0	.0	.0	.0	.0191	.0	14
42002	1973	15	.0049	.0004	.0016	.1948	.0	.0001	.0	.0	.0	.0	.0609	.0	15
42002	1973	16	.0025	.0003	.4425	.1582	.0	.0	.0	.0	.0	.0	.3648	.0	16
42002	1973	17	.0018	.0005	.0162	.3214	.0	.0	.0	.0	.0	.0	.0152	.0	17
42002	1973	18	.0014	.0004	.0043	.0043	.0486	.0	.0	.0	.0	.0	.0024	.0	18
42002	1973	19	.0009	.0004	.0020	.0104	.0	.0	.0	.0	.0	.0	.007	.0	19
42002	1973	20	.0008	.0003	.0010	.0047	.0	.0	.0	.0	.0	.0	.0003	.0085	20
42002	1973	21	.0101	.0009	.0024	.0	.0001	.0	.0	.0	.0	.0	.0001	.0019	21
42002	1973	22	.0027	.0599	.0003	.0042	.0	.0	.0	.0	.0	.0	.0001	.0008	22
42002	1973	23	.0010	.0515	.0002	.1000	.0	.0	.0	.0	.0	.0	.0001	.0007	23
42002	1973	24	.0006	.0128	.16034	.1.9825	.0	.0	.0	.0	.0	.0	.0002	.0004	24
42002	1973	25	1.2700	.0048	.0189	.0638	.3886	.0	.0	.0	.0	.0	.0001	.0002	25
42002	1973	26	.0979	.0025	.0032	.0089	.6645	.0	.0	.0	.0	.0	.0001	.0002	26
42002	1973	27	.0157	.0016	.0013	.0018	.0065	.0	.0	.0	.0	.0	.0002	.0	27
42002	1973	28	.0037	.0011	.0007	.0006	.0007	.0	.0	.0	.0	.0	.0001	.0001	28
42002	1973	29	.0012	.0	.0004	.0002	.0001	.0	.0	.0	.0	.0	.0	.0	29
42002	1973	30	.0009	.0	.0003	.0002	.0002	.0	.0	.0	.0	.0	.3235	.0	30
42002	1973	31	.0536	.0	.0002	.0	.0	.0	.0	.0	.0	.0	.2801	.0	31
MEAN CFS INCHES	1.5146 1.9302	.2953 .3399	2.1139 2.6939	2.3551 2.9044	.8494 1.0825	2.2584 2.7852	.0000 .0000	.0000 .0000	.0000 .0000	.0000 .0000	.0000 .0000	.0000 .0000	.9196 2.4462	.0118 .0146	.0871 .1110

2959 RECORDS PROCESSED

YEARLY ACCUMULATION = 14.307

Exhibit 5.--Daily runoff table.

DAILY RUNOFF TABLE

<u>Data column</u>	<u>Data field description</u>	<u>FORTRAN format</u>
1-2	Unique identification number for each location.	I2
3-5	Numeric identification for each station (unique for location).	I3
6	Blank.	1X
7-8	Year.	I2
9	Blank.	1X
10-11	Day of month.	I2
12	Blank.	1X
13-120	12 volumes (inches) and estimate codes (1 for each month of year).	12(F8.4,A1)

Each year consists of 31 records followed by a record of all 9's.

Exhibit 6.--Daily runoff tape format.

### PLOTYR

This procedure is designed to plot rainfall hyetographs superimposed over runoff hydrographs from continuous breakpoint data. It provides the data requester with the ability to review a series of storm events in an interactive mode. The PLOTYR procedure executes a Fortran program using "DISSPLA" plot routines to output data to a graphics screen or to a pen plotter. The program plots data for timespans of up to a maximum of 1 month per plot frame. The user can specify time periods within that month to be redisplayed or replotted. The data for a part (parts) of a specific time period can be plotted repeatedly as long as the operator does not proceed to the next month. The data plotted by this program must be in online disk files in S&R format. Since this procedure does not differentiate among different types of precipitation, the terms "rainfall" and "precipitation" are used interchangeably. The WDLCOPY procedure can be used to copy precipitation and runoff data to disk.

The PLOTYR procedure gives the operator the option of producing plots in English or metric units. The English units are in/hr for rainfall intensities and cfs for runoff rates. The metric units are mm/s for rainfall intensities and l/s for runoff. Time increments are always displayed as fractional days.

A sample session of PLOTYR follows. Operator entries are shown as lowercase letters and prompts as uppercase letters. All responses must be concluded by pressing the RETURN key. Pressing the RETURN key without entering a response generates a zero (null response). The first prompts in this procedure request the names for previously existing files to be input to the program. For a detailed explanation of fully qualified data set names, see Chapter 3 (p. 9). Either the rainfall or runoff file can be nullified by entering DUMMY when prompted for a data set name.

In the following sample session the operator has elected not to plot any of the January data. For the month of February the user requested the PLOTYR procedure to plot the time period from February 18 at 12 noon (18.5 in days and fractional part thereof) to February 19 at 12 midnight (20.0 in decimal days). The screen will be automatically cleared and the plot produced at this point. When the plot frame is complete, the system will signal the operator with an audible "beep." If a flatbed plotter is being used, the paper should be changed at this point. When ready to continue, the operator should press the HOME/PAGE key and the RETURN key. The PLOTYR procedure will continue by generating the ENTER BEG & END DAY prompt. The operator may then enter another timespan for February or enter 99 to continue with data for March. The number 00 can be entered at any time to create a plot of the full month of

data. The operator may cancel the session at any time by entering the number 77 in response to a BEG & END DAY prompt. A sample of the pen plot generated by this session is shown in exhibit 7.

Sample session

```
exec 'seanzwd.clib(plotyr)'
ENTER RAINFALL DSN (FULLY QUALIFIED):
seanzsw.plt.137.rain
ENTER RUNOFF DSN (FULLY QUALIFIED):
seanzsw.plt.137.runoff
*****
* PLOTYR SUPPORTS THE FOLLOWING DEVICES: *
* TK4010 - TEKTRONIX 4010 & 4050 SERIES *
* TK4025 - TEKTRONIX MODEL 4025 *
* TK4027 - TEKTRONIX MODEL 4027 *
* TK4662 - TEXTRONIX FLATBED PLOTTER *
* CALCMP - CALCOMP *
* HP2647 - HEWLETT-PACKARD 2647 *
* HP2648 - HEWLETT-PACKARD 2648 *
* HP7221 - HEWLETT-PACKARD FLATBED PLOTTER *
* HP9872 - HEWLETT-PACKARD FLATBED PLOTTER *
*****
ENTER YOUR DEVICE TYPE (6 CHAR.):
tk4662
PLEASE WAIT - FILES BEING ALLOCATED
METRIC CONVERSION? 1=Y,9=N:
9
*****
SPECIAL RESPONSES TO FOLLOWING PROMPTS:
99 - PROCEED TO NEXT MONTH
00 - PLOT ENTIRE MONTH
77 - END SESSION
*****
PEAK FLOW= 70.8220 CFS FOR JAN 1974
ENTER BEG & END DAY OF JAN 1974 OR SPECIAL (99,00,77):
BB.BB EE.EE
99
PEAK FLOW = 182.7662 CFS FOR FEB 1974
ENTER BEG & END DAY OF FEB 1974 OR SPECIAL (99,00,77):
BB.BB EE.EE
18.50 20.00
*
*
* Plot produced here.
*
*
ENTER BEG & END DAY OF FEB 1974 OR SPECIAL (99,00,77):
BB.BB EE.EE
77
READY
```

WATERSHED 37002  
RAIN GAGE 000003

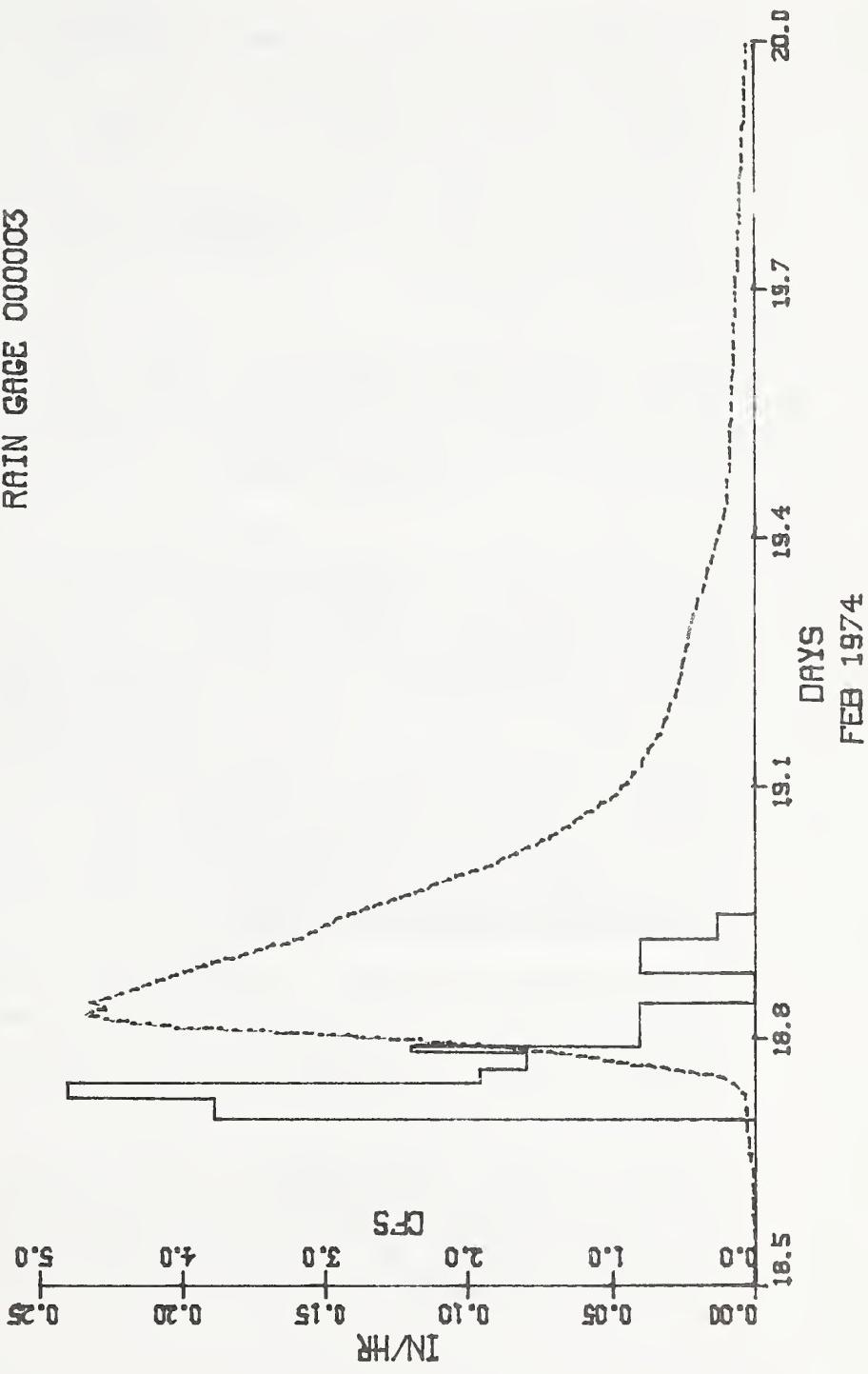


Exhibit 7.--Pen plot from PLOTYR procedure.

## SASPLOTP

The SASPLOTP procedure provides the REPHLEX user with the ability to generate line printer plots of selected parts of any precipitation file in the ARS Water Data Bank. The procedure allows the user to interactively structure a query for a specified year of data, isolating and plotting the observations falling within specified time intervals for that year. Since this procedure does not differentiate among the different types of precipitations, the terms "rainfall" and "precipitation" are used interchangeably.

Two plot options are available for use. The accumulation curve option plots total accumulation (inches) versus total elapsed time (minutes). The hyetograph option plots rainfall intensity (in/hr) versus total elapsed time. Accompanying each plot is a listing of the individual data observations that generated the plot.

The session begins with the user interactively entering a project number, job priority, and destination. See Chapter 3 for a description of these parameters. Next the user is prompted to identify the desired data file by entering a two-digit location number, a six-character rain gage identifier, and a two-digit year for the data desired for plotting (1 year per session). Plots are then requested by specifying time intervals and plot options (see following sample session). Any number of plots may be specified for a given year of data. Time intervals may range from a few minutes to an entire year. After all plot intervals for a given year have been defined, the procedure automatically creates and submits a batch job to produce the plots.

When using this procedure, the user should be aware of the limitation of the line printer as a graphics device. Plot resolution is directly related to the density of observations within a given time interval (i.e., few points result in high resolution and many points in low resolution).

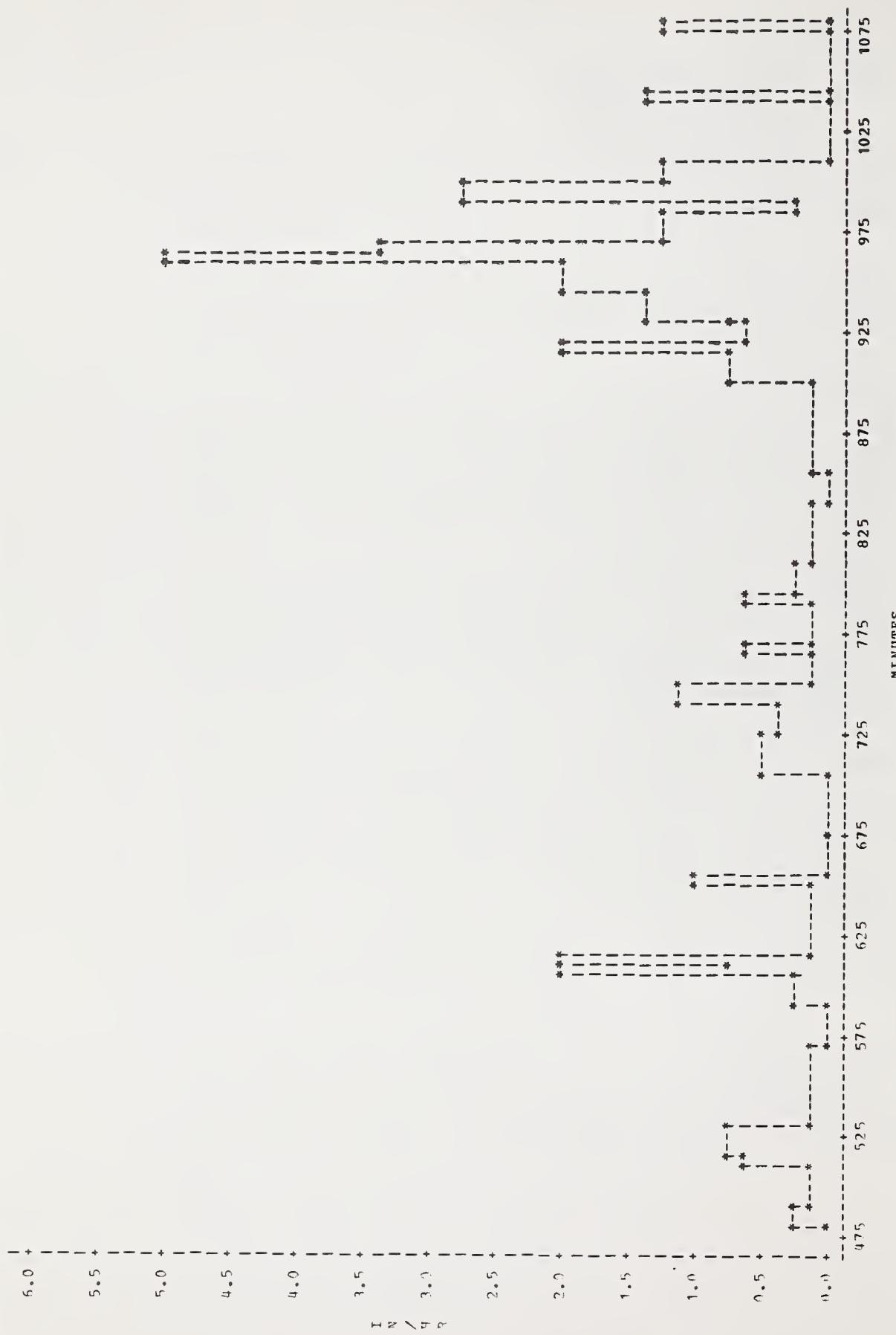
In the following sample session, operator entries are shown as lowercase letters and REPHLEX prompts as uppercase letters. All responses must be concluded by pressing the RETURN key. Pressing the RETURN key without entering a response generates a space (null response). A sample hyetograph is shown in exhibit 8.

Sample session

```
exec 'seanzwd.clib(sasplotp)'  
*****  
* PLOT RAINFALL TO PRINTER *  
*****  
ENTER PROJECT NUMBER:  
9999999999  
ENTER JOB PRIORITY:  
3  
ENTER DESTINATION:  
rmt29  
ENTER 2-DIGIT LOCATION NUMBER:  
37  
ENTER 6-CHARACTER RAIN GAGE ID:  
000003  
ENTER 2-DIGIT DATA YEAR:  
74  
ENTER INTERVAL BEGIN DATE (MMDD):  
0919  
ENTER 4-DIGIT BEGIN TIME (DEFAULT 0000):  
0600  
ENTER INTERVAL END DATE (MMDD):  
0919  
ENTER 4-DIGIT END TIME (DEFAULT 2400):  
2400  
DATA WILL BE PLOTTED FOR L37.RG000003.Y1974 FOR THE INTERVAL:  
    BEGIN - 0919 (06:00)  
    END   - 0919 (24:00)  
IF INCORRECT, TYPE (X):  
  
ENTER TYPE PLOT (1)-ACCUMULATION (2)-INTENSITY:  
2  
MORE PLOTS FROM THIS RAIN GAGE YEAR? (Y)-YES (N)-NO:  
n  
JOB SEANZ74P(JOB06279) SUBMITTED ** FREE ALL FILES **  
END OF SEANZWD.CLIB(SASPLOTP)  
READY
```

9:13 FRIDAY, JANUARY 21, 1983

LOCATION/GAGE L37.RG000003  
09-19-74 (06:00) TO 09-19-74 (24:00)  
TIME (TOTAL MINUTES) VS. INTENSITY



NOTE: 347 OBS HAD MISSING VALUES 1109 OBS HIDDEN

Exhibit 8.--Printer plot from SASPLTOP procedure.

## SASPLOTQ

The **SASPLOTQ** procedure provides the **REPHLEX** user with the ability to generate line printer hydrographs of selected parts of any runoff file in the ARS Water Data Bank. The procedure allows the user to interactively structure a query for a specified year of data, isolating and plotting the observations falling within specified time intervals for that year.

**SASPLOTQ** plots runoff rates (in/hr or cfs) versus total elapsed time (minutes) for any time interval specified by the user. Accompanying each plot is a listing of the individual data observations that generated the plot.

The session begins with the user interactively entering a project number, job priority, and destination. See Chapter 3 for a description of these parameters. Next the user is prompted to identify the desired data file by entering a two-digit location number, a three-digit watershed number, and a two-digit year for the data desired for plotting (1 year per session). Plots are then requested by specifying time intervals and runoff rate options (see following sample session). Any number of plots may be specified for a given year of data. Time intervals may range from a few minutes to an entire year. After all plot intervals for a given year have been defined, the procedure automatically creates and submits a batch job to produce the plots.

When using this procedure, the user should be aware of the limitation of the line printer as a graphics device. Plot resolution is directly related to the density of observations within a given time interval (i.e., few points result in high resolution and many points in low resolution). A sample hydrograph is shown in exhibit 9.

In the following sample session, operator entries are shown as lowercase letters and prompts as uppercase letters. All responses must be concluded by pressing the **RETURN** key. Pressing the **RETURN** key without entering a response generates a space (null or default response).

Sample session

```
exec 'seanzwd.clib(sasplotq)'  
*****  
* PLOT RUNOFF TO PRINTER *  
*****  
ENTER PROJECT NUMBER:  
9999999999  
ENTER JOB PRIORITY:  
3  
ENTER DESTINATION:  
rmt29  
ENTER 2-DIGIT LOCATION NUMBER:  
37  
ENTER 3-DIGIT WATERSHED NUMBER:  
002  
ENTER 2-DIGIT DATA YEAR:  
74  
ENTER INTERVAL BEGIN DATE (MMDD):  
0919  
ENTER 4-DIGIT BEGIN TIME (DEFAULT 0000):  
0600  
ENTER INTERVAL END DATE (MMDD):  
0919  
ENTER 4-DIGIT END TIME (DEFAULT 2400):  
  
DATA WILL BE PLOTTED FOR L37.W002.Y1974 FOR THE INTERVAL:  
BEGIN - 0919 (06:00)  
END - 0919 (24:00)  
IF INCORRECT, TYPE (X):  
  
ENTER TYPE PLOT (1)-CFS (2)-INCHES PER HOUR:  
2  
MORE PLOTS FROM THIS WATERSHED YEAR? (Y)-YES (N)-NO:  
n  
JOB SEANZ74Q(JOB06279) SUBMITTED ** FREE ALL FILES **  
END OF SEANZWD.CLIB(SASPLOTQ)  
READY
```

9:15 FRIDAY, JANUARY 21, 1983

LOCATION 37002  
09-19-74 (06:00) TO 09-19-74 (24:00)  
TIME (TOTAL MINUTES) VS. RATE (IN/HR)  
LEGEND: A = 1 OBS. B = 2 OBS. ETC.

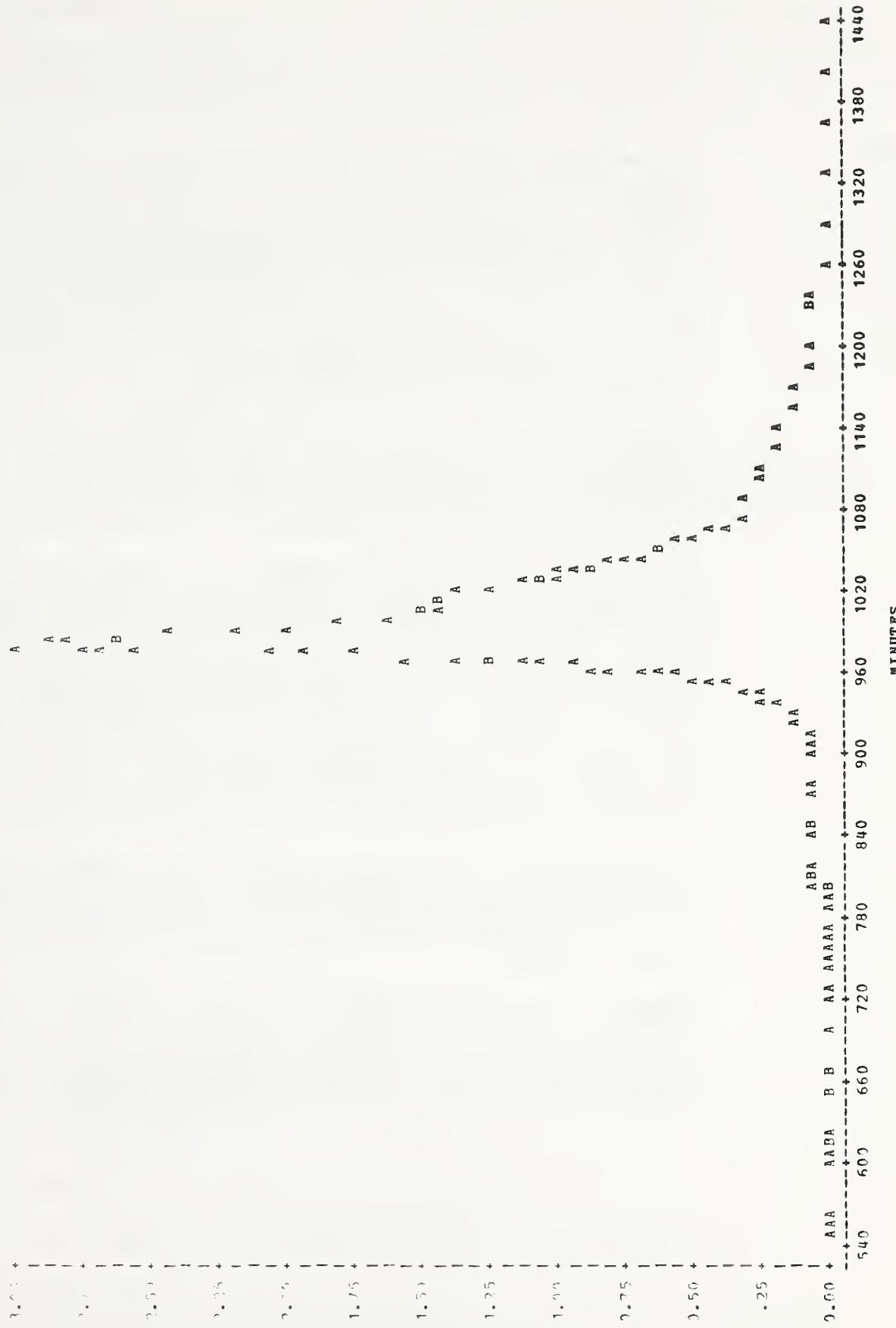


Exhibit Q - Printer plot from SASPLOTQ procedure.

## SASGRAFP

The **SASGRAFP** procedure provides online, interactive graphics support to those **REPHLEX** users with access to one of various graphics terminals and plotters. See the following sample session for a complete list of devices supported by this procedure. The user may plot any precipitation data stored in online disk files in S&R format. Refer to **WDLCOPY** for information on creating online data files from the ARS Water Data Bank. Since this procedure does not differentiate among the different types of precipitation, the terms "rainfall" and "precipitation" are used interchangeably.

Two plot options are available through **SASGRAFP**. The accumulation curve option plots total rainfall accumulation (inches) versus total time (minutes) for a user specified time interval. The hyetograph option plots rainfall intensity (in/hr) versus total time (minutes) for a given period.

The procedure consists of two phases, environment definition and plot production. The environment definition phase consists of responding to interactive prompts for the type of graphics device being used and the input data set name. This phase is performed once for each session. Phase two is performed for each plot desired. It consists of responding to interactive prompts for starting date and time, ending date and time, and type of plot desired. After each plot is finished, the user may continue plotting or terminate the session. The procedure will continually loop through phase two until termination is requested. A sample pen plot is shown in exhibit 10.

In the following sample session, operator entries are shown as lowercase letters and **REPHLEX** prompts as uppercase letters. All responses must be concluded by pressing the **RETURN** key. Pressing the **RETURN** key without a response generates a space (null response).

**WARNING:** Considerable computer resources are required to generate plots using this procedure. Depending on the size of the input file and the number of observations within the specified time interval, a series of plots produced by **SASGRAFP** may range from \$10 to \$30 or more. User discretion is advised.

## Sample session

```
exec 'seanzwd.clib(sasgrafp)'  
*****  
* PLOT RAINFALL INTERACTIVELY (USING SASGRAPH)*  
*****
```

ENTER (1) FOR INSTRUCTIONS ON USE OF THIS PROCEDURE:

1

THIS PROCEDURE SHOULD BE USED ONLY IF THE DATA TO BE PLOTTED ARE RESIDENT IN AN ONLINE DISK DATA SET, THE DATA ARE IN STORAGE AND RETRIEVAL FORMAT, AND THE GRAPHICS DEVICE IS ONE OF THE FOLLOWING TYPES:

TEKTRONICS - 4010,4025,4027,4051,4662,4663  
HP - 2647,2648,7220,7221,9872(W/A 2647 TERMINAL)  
CALCOMP - 1012, ADI 50, RAMTEK 6200, IBM 3278/9,  
ZETA 1453, CHROMATICS 1398/9, 1598/9, 1998/9, SERVOGOR 281

WHEN PROMPTED, SPECIFY THE PLOT DEVICE BY ENTERING THE MANUFACTURER'S ABBREVIATION FOLLOWED BY THE MODEL NUMBER OF THE DEVICE BEING USED FOR THE PLOT (EXAMPLE: TEK4025,HP2647,CAL1012,ADI50,RAM6200,IBM3278,ZET1453,CHR1398,SER281).

IF YOU CANNOT SATISFY THE ABOVE CRITERIA, PRESS THE BREAK KEY TO EXIT THIS PROCEDURE AND EXECUTE 'SEANZWD.CLIB(SASPLOTP)' TO GENERATE LINE PRINTER PLOTS.

ENTER FULLY QUALIFIED FILE NAME:  
seanzsw.plt.l37.RG000003.Y1974

ENTER PLOT DEVICE:

TEK4010

ENTER LOCATION-GAGE IDENTIFIER (ANY FORMAT):

137-rg03

ENTER 2-DIGIT DATA YEAR:

74

ENTER INTERVAL BEGIN DATE (MMDD):

0919

ENTER 4-DIGIT BEGIN TIME (DEFAULT 0000):

0600

ENTER INTERVAL END DATE (MMDD):

0919

ENTER 4-DIGIT END TIME (DEFAULT 2400):

2400

DATA WILL BE PLOTTED FOR 'SEANZSW.PLT.L37.RG000003.Y1974' FOR THE INTERVAL:

BEGIN - 0919 (06:00)

END - 0919 (24:00)

IF DATES WRONG, ENTER (X):

ENTER TYPE PLOT (1)-ACCUMULATION (2)-INTENSITY:

1

NOTE: SAS RELEASE 79.5 AT WASHINGTON COMPUTER CENTER (006830).

NOTE: INFIL IN IS:

DSNAME=SEANZSW.PLT.L37.RG000003.Y1974  
UNIT=SYSDA,VOL=SER=STOR44,DISP=SHR,

DCB=(BLKSIZE=4620,LRECL=70,RECFM=FB)  
NOTE: 66 LINES WERE READ FROM INFILE IN.  
NOTE: DATA SET WORK.SASGRAFP HAS 65 OBSERVATIONS AND 33 VARIABLES. 69 OBS/TRK.

PRESS RETURN AFTER EACH BELL TO CONTINUE.

\*  
\*  
\* Plot produced here.  
\*  
\*

NOTE: SAS INSTITUTE, SAS CIRCLE, BOX 8000, CARY NC 27511.

MORE PLOTS/ (Y)-YES (N)-NO:

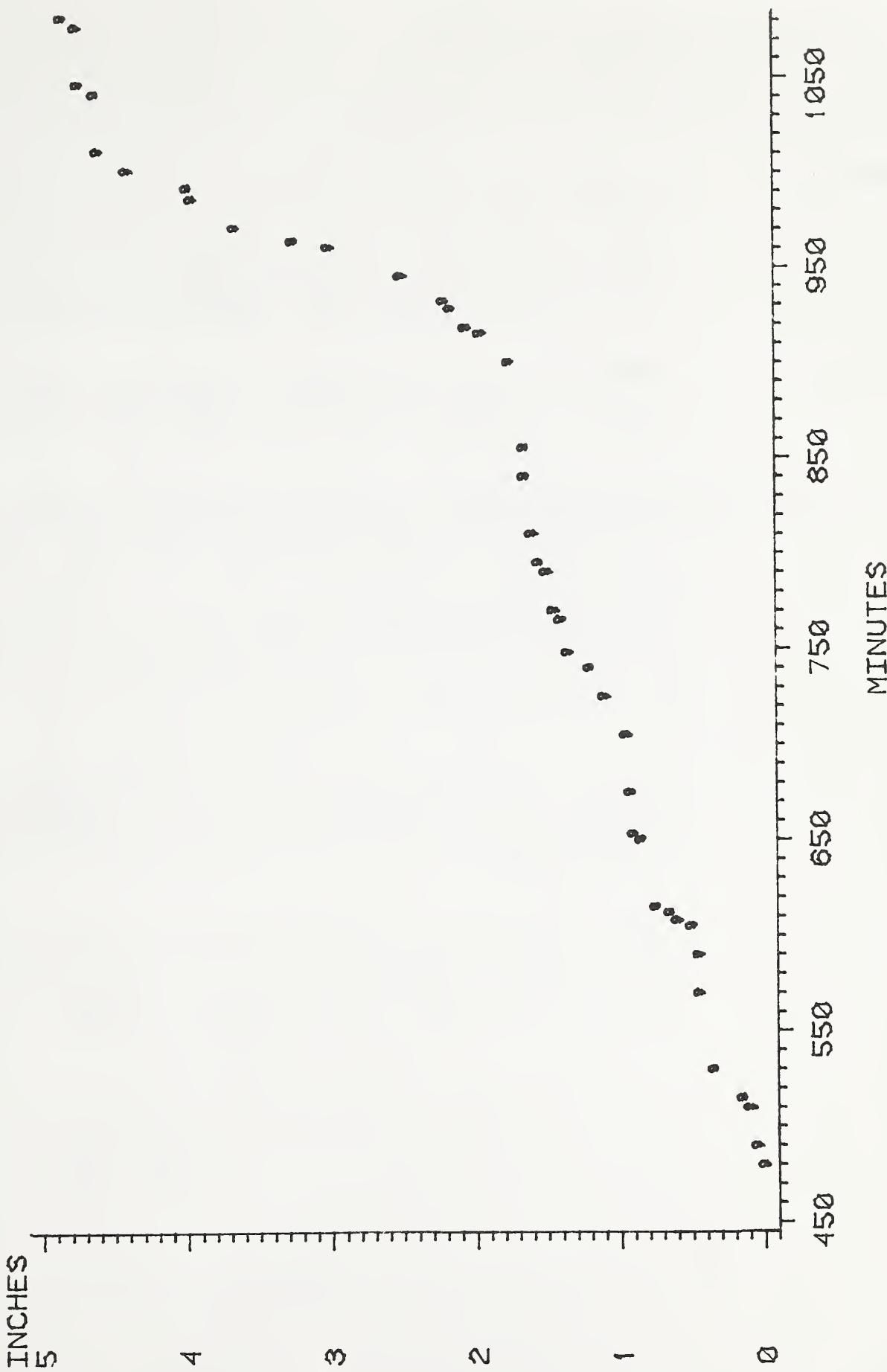
n

END OF SEANZWD.CLIB(SASGRAFP)

READY

L37-RG03  
09-19-74 (06:00) TO 09-19-74 (24:00)  
TIME (TOTAL MINUTES) VS. ACCUMULATION

INCHES



## **SASGRAFQ**

The **SASGRAFQ** procedure provides online, interactive graphics support to those **REPHLEX** users with access to one of various graphics terminals and plotters. See the following sample session for a complete list of devices supported by this procedure. The user may plot any runoff data stored in online disk files in S&R format. Refer to **WDLCOPY** for information on creating online data files from the ARS Water Data Bank.

**SASGRAFQ** plots runoff hydrographs for any specified time period within a given year of runoff data. Runoff rates are plotted in either in/hr or cfs versus total elapsed time for each event.

The procedure consists of two phases, environment definition and plot production. The environment definition phase consists of responding to interactive prompts for the type of graphics device being used and the input data set name. This phase is performed once for each session. Phase two is performed for each plot desired. It consists of responding to interactive prompts for starting date and time, ending date and time, and intensity scale desired. After each plot is finished, the user may continue plotting or terminate the session. The procedure will continually loop through phase two until termination is requested. A sample pen plot is shown in exhibit 11.

In the following sample session, operator entries are shown as lowercase letters and **REPHLEX** prompts as uppercase letters. All responses must be concluded by pressing the **RETURN** key. Pressing the **RETURN** key without a response generates a space (null response).

**WARNING:** Considerable computer resources are required to generate plots using this procedure. Depending on the size of the input file and the number of observations within the specified time interval, a series of plots produced by **SASGRAFQ** may range from \$10 to \$30 or more. User discretion is advised.

Sample session

```
exec 'seanzwd.clib(sasgrafq)'  
*****  
* PLOT RUNOFF INTERACTIVELY (USING SASGRAPH) *  
*****
```

ENTER (1) FOR INSTRUCTIONS ON USE OF THIS PROCEDURE:

1

THIS PROCEDURE SHOULD BE USED ONLY IF THE DATA TO BE PLOTTED ARE RESIDENT IN AN ONLINE DISK DATA SET, THE DATA ARE IN STORAGE AND RETRIEVAL FORMAT, AND THE GRAPHICS DEVICE IS ONE OF THE FOLLOWING TYPES:

TEKTRONICS - 4010,4025,4027,4051,4662,4663  
HP - 2647,2648,7220,7221,9872(W/A 2647 TERMINAL)  
CALCOMP - 1012, ADI 50, RAMTEK 6200, IBM 3278/9,  
ZETA 1453, CHROMATICS 1398/9, 1598/9, 1998/9, SERVOGOR 281

WHEN PROMPTED, SPECIFY THE PLOT DEVICE BY ENTERING THE MANUFACTURER'S ABBREVIATION FOLLOWED BY THE MODEL NUMBER OF THE DEVICE BEING USED FOR THE PLOT (EXAMPLE: TEK4025,HP2647,CAL1012,ADI50,RAM6200,IBM3278,ZET1453,CHR1398,SER281).

IF YOU CANNOT SATISFY THE ABOVE CRITERIA, PRESS THE BREAK KEY TO EXIT THIS PROCEDURE AND EXECUTE 'SEANZWD.CLIB(SASPLOTQ)' TO GENERATE LINE PRINTER PLOTS.

ENTER FULLY QUALIFIED FILE NAME:

seanzsw.plt.169.w030.y1965

ENTER PLOT DEVICE:

TEK4010

ENTER LOCATION-GAGE IDENTIFIER (ANY FORMAT):

169.w030

ENTER 2-DIGIT DATA YEAR:

65

ENTER INTERVAL BEGIN DATE (MMDD):

0807

ENTER 4-DIGIT BEGIN TIME (DEFAULT 0000):

ENTER INTERVAL END DATE (MMDD):

0809

ENTER 4-DIGIT END TIME (DEFAULT 2400):

DATA WILL BE PLOTTED FOR 'SEANZSW.PLT.L69.W030.Y1965' FOR THE INTERVAL:

BEGIN - 0807 (00:00)

END - 0809 (24:00)

IF DATES WRONG, ENTER (X):

ENTER TYPE PLOT (1)-CFS (2)-IN/HR:

1

NOTE: SAS RELEASE 79.5 AT WASHINGTON COMPUTER CENTER (006830).

NOTE: INFILE IN IS:

DSNAME=SEANZSW.PLT.L69.W030.Y1965  
UNIT=SYSDA ,VOL=SER=STOR44,DISP=SHR,  
DCB=(BLKSIZE=4620,LRECL=70,RECFM=FB)

NOTE: 66 LINES WERE READ FROM INFILE IN.

NOTE: DATA SET WORK.SASGRAFQ HAS 65 OBSERVATIONS AND 33 VARIABLES. 69 OBS/TRK.

PRESS RETURN AFTER EACH BELL TO CONTINUE.

\*  
\*  
\* Plot produced here.  
\*  
\*

NOTE: SAS INSTITUTE, SAS CIRCLE, BOX 8000, CARY NC 27511.

MORE PLOTS/ (Y)-YES (N)-NO:

n

END OF SEANZWD.CLIB(SASGRAFQ)  
READY

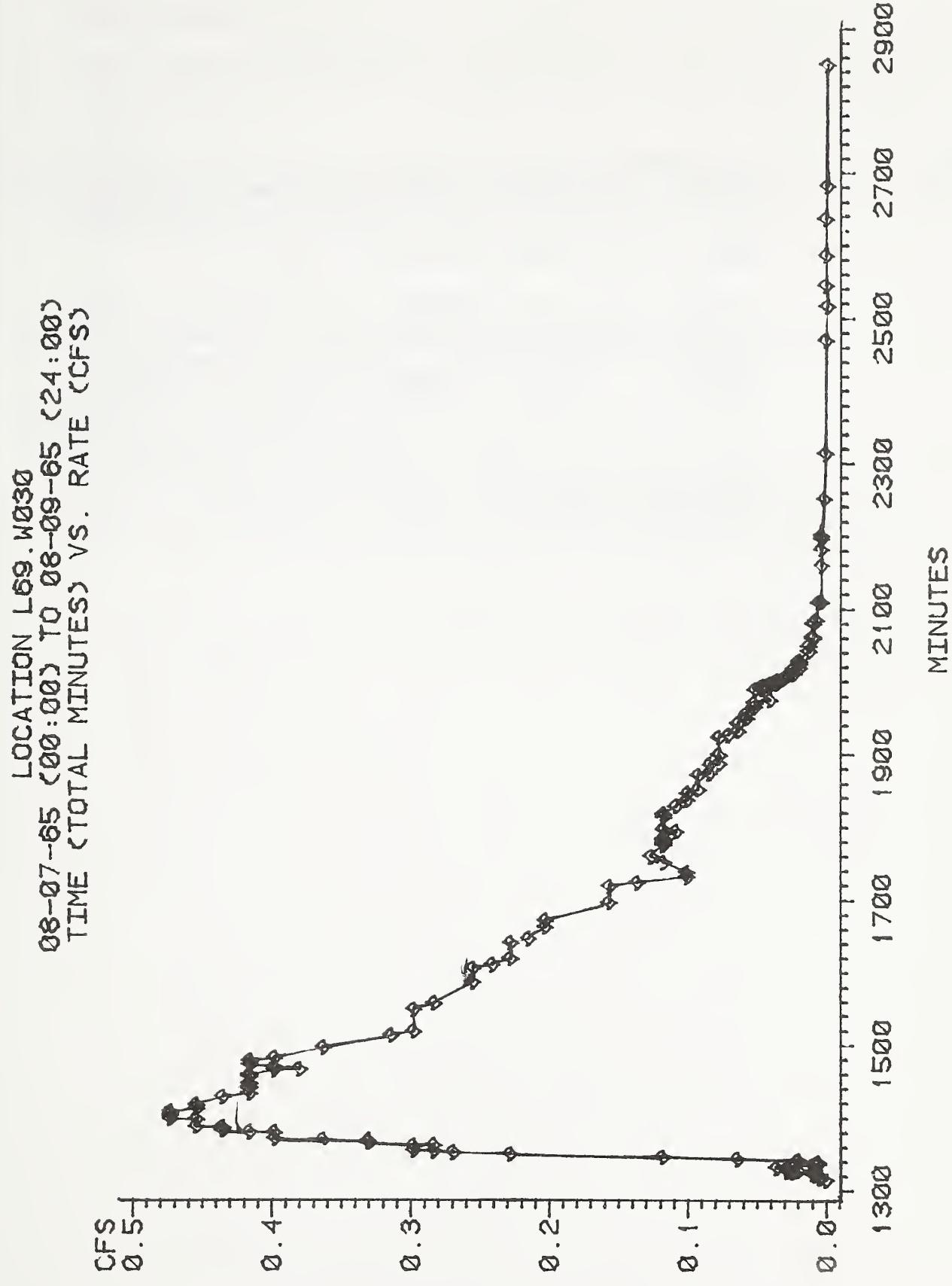


Exhibit 11.--Pen plot from SASGRAFQ procedure.

**SPRDSHT**

This **REPHLEX** procedure provides updates for the "Summary of the ARS Water Data Bank" (see Appendix B). The procedure creates a batch job to print the report for all or selected locations. For a partial report, the operator must enter a two-digit number for each location desired.

A sample session of the **SPRDSHT** procedure follows. Operator entries are shown as lowercase letters and prompts as uppercase letters. All responses must be concluded by pressing the **RETURN** key. Pressing the **RETURN** key without entering a response will generate a space (null response). For a detailed explanation of the jobname, priority, destination, and msgclass prompts, refer to Chapter 3. One page of the printout from this sample session is shown in exhibit 12. For a complete description of the report, refer to Appendix B.

Sample session

```
exec 'seanzwd.clib(sprdsht)'
ENTER JOBNAME:
seazprt
ENTER PRIORITY:
3
ENTER PROJECT NUMBER:
9999999999
ENTER MSGCLASS (DEFAULT=A):
a
ENTER DESTINATION:
rmt29
DO YOU WANT A COMPLETE UPDATE FOR ALL LOCATIONS? (Y-YES, N-NO):
n
ENTER LOCATION NUMBER (2 DIGITS):
08
ENTER LOCATION NUMBER OR END:
73
ENTER LOCATION NUMBER OR END:
end
JOB SEAZPRNT(JOB06396) SUBMITTED ** FREE ALL FILES **
READY
```

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

01/04/83

PAGE 1

L08 - VERO BEACH, FL

	4	4	5	5	6	6	7	7	8	8
RG	.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000001	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	.
000002	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	
000003	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	
000004	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	
000005	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	
000006	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	
000007	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

7 RAINGAGES

14 STATION YEARS - BREAKPOINT  
154 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
002	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDDD.D	.	.	.	.	.
003	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDDD.D	.	.	.	.	.
005	.	.	.	.	.	DD.DDDDD.DDDDD.D	.	.	.	.

3 WATERSHEDS

0 STATION YEARS - BREAKPOINT  
57 STATION YEARS - DAILY

Exhibit 12.--Sample page from SPRDSHT procedure.

**NEWS**

This **REPHLEX** procedure provides to the users any messages concerning modifications or additions to the system. These messages are changed as needed. A sample session of the **NEWS** procedure follows.

Sample session

```
exec 'seanzwd.clib(news)'  
*****  
DECEMBER 1982  
FOR HELP WITH REPHLEX PROCEDURES  
CALL THE WATER DATA LABORATORY  
FTS 344-3550 OR  
COMM. 301-344-3550  
*****  
READY
```

APPENDIX A - INDEX TO INFORMATION ON EXPERIMENTAL AGRICULTURAL  
WATERSHEDS

The following index provides general information about all watersheds represented in the ARS Water Data Bank. It can be used specifically as a cross-reference of watershed identification codes employed in the ARS Water Data Bank and at the Watershed Research Centers. Most of the variables in the index are self-explanatory. The effective date is in the second title line. For more current information, refer to the **IDENT** procedure in Chapter 4 (p. 18). The "WS ID" column in the index consists of a location number (two digits) and a watershed number (three digits). The word "PRESENT" under "PERIOD FOR ACREAGE" implies that the watershed is currently being monitored. A column titled "AVAIL" provides beginning and ending years for runoff data accessible through **REPHLEX** procedures. Latitude and longitude are given in degrees, minutes, and seconds under "LAT" and "LONG."

INDEX TO INFORMATION ON EXPERIMENTAL AGRICULTURAL WATERSHEDS  
WATER DATA LABORATORY

12/29/82

PAGE 1

WS ID	LOCATION	WS NAME	ACRES	PERIOD FOR ACREAGE	AVAIL	LAT	LONG
*****	*****	*****	*****	*****	*****	*****	*****
08002	VERO BEACH	FL W-2	63100.	07/01/55 12/31/59	1955-1976	271703	804921
		63170.	63170.	01/01/60 12/31/66			
		66880.	66880.	01/01/67 PRESENT			
08003	VERO BEACH	FL W-3	10000.	07/01/55 12/31/59	1955-1976	272324	805342
		10050.	10050.	01/01/60 12/31/66			
		12224.	12224.	01/01/67 PRESENT			
08005	VERO BEACH	FL W-5	22656.	01/01/64 12/31/75	1964-1976	271840	805344
		20992.	20992.	01/01/76 PRESENT			
09001	AMERICUS	GA W-1	17.9	08/01/38 12/31/38	1938-1943	320852	841830
			23.5	01/01/39 06/30/42			
09002	AMERICUS	GA W-II	22.8	07/01/42 05/31/43	1938-1942	321137	842015
09003	AMERICUS	GA W-III	42.8	08/01/38 03/31/42	1938-1942	321100	842015
09004	AMERICUS	GA W-IV	32.0	08/01/38 02/28/42	1938-1942	321308	842148
			59.2	08/01/38 04/30/43	1938-1943		
10001	WATKINSVILLE	GA W-1	19.2	09/01/39 PRESENT	1945-1980	335338	832530
10011	WATKINSVILLE	GA P-1	6.67	01/01/72 12/31/75	1972-1975	335315	832515
10012	WATKINSVILLE	GA P-2	3.21	01/01/73 12/31/75	1973-1975	335305	832538
10013	WATKINSVILLE	GA P-3	3.11	01/01/72 12/31/75	1972-1975	335208	832710
10014	WATKINSVILLE	GA P-4	3.41	01/01/73 12/31/75	1973-1975	335212	832710
13006	BLACKSBURG	VA T.C.	3054.	06/01/57 12/31/69	1957-1969	370557	804434
13007	BLACKSBURG	VA C.C.	786.	08/01/57 PRESENT	1957-1972	370756	802730
13008	BLACKSBURG	VA B.C.	893.	08/01/57 PRESENT	1957-1972	370245	801643
13009	BLACKSBURG	VA P.C.	182.	01/01/58 12/31/69	1958-1969	363452	791118
13010	BLACKSBURG	VA L.W.C.	1471.	-01/01/58 12/31/74	1958-1972	363518	790519
13011	BLACKSBURG	VA R.R.B.	555.	04/01/58 PRESENT	1958-1972	364354	775441
13012	BLACKSBURG	VA P.M.B.	192.	06/01/58 12/31/69	1958-1969	382705	775723
13013	BLACKSBURG	VA C.R.	2023.	10/01/59 12/31/69	1959-1969	383430	782715
13014	BLACKSBURG	VA F.C.	389.	09/01/60 12/31/69	1960-1969	375748	781112
13015	BLACKSBURG	VA C.B.	1058.	09/01/60 PRESENT	1960-1972	372206	792310
16006	KLINGERSTOWN	PA WE-38	1773.	01/01/68 PRESENT	1968-1975	404216	763516

INDEX TO INFORMATION ON EXPERIMENTAL AGRICULTURAL WATERSHEDS  
WATER DATA LABORATORY

12/29/82

PAGE 2

WS ID	LOCATION	WS NAME	ACRES	PERIOD FOR ACREAGE	AVAIL	LAT	LONG
*****	*****	*****	*****	*****	*****	*****	*****
17001	EDWARDSVILLE IL	W-1	27.22	03/01/38 12/31/55	1938-1955	385245	895414
17002	EDWARDSVILLE IL	W-2	49.95	03/01/38 12/31/55	1938-1954	385245	895424
17003	EDWARDSVILLE IL	W-3	12.55	03/01/38 12/31/42	1938-1942	385227	895408
17004	EDWARDSVILLE IL	W-4	289.8	03/01/38 12/31/55	1938-1955	385242	895427
22003	AMES	IA FOURMI C	12.48	01/01/76 12/31/78	1976-1978	421454	923800
22004	AMES	IA FOURMI C	15.74	01/01/76 12/31/78	1976-1978	421454	923802
22005	AMES	IA FOURMI C	14.65	01/01/76 12/31/78	1976-1978	421248	923342
22006	AMES	IA FOURMI C	701.85	01/01/76 12/31/78	1976-1978	421506	924236
22007	AMES	IA FOURMI C	368.22	01/01/76 12/31/78	1976-1978	421448	923812
25001	MCCREDIE MO	S.R.W.	154.	01/01/41 PRESENT	1941-1978	385654	915437
26001	COSHOCTON OH	102	1.26	04/01/37 12/31/46	1937-1981	402225	814741
26002	COSHOCTON OH	104	1.26	01/01/57 12/31/57			
26003	COSHOCTON OH	129	1.33	04/01/60 PRESENT			
26004	COSHOCTON OH	135	1.33	04/01/37 12/31/46	1937-1981	402224	814741
26005	COSHOCTON OH	130	2.71	01/01/69 12/31/78			
26006	COSHOCTON OH	107	2.71	04/01/38 12/31/72	1938-1981	402219	814752
26007	COSHOCTON OH	131	2.69	01/01/74 12/31/78			
26008	COSHOCTON OH	132	0.59	04/01/38 12/31/69	1938-1981	402220	814748
26009	COSHOCTON OH	134	2.69	01/01/74 12/31/78			
26010	COSHOCTON OH	123	1.63	05/01/38 12/31/71	1938-1981	402213	814758
26011	COSHOCTON OH	115	2.59	09/01/38 12/31/46	1939-1946	402128	814757
26012	COSHOCTON OH	127	2.21	05/01/38 12/31/69	1939-1981	402208	814812
26013	COSHOCTON OH	109	2.21	01/01/75 PRESENT			
26014	COSHOCTON OH	103	0.59	05/01/48 12/31/68	1948-1969	402158	814815
26015	COSHOCTON OH	110	0.62	01/01/69 12/31/69			
			0.92	05/01/38 06/30/47	1938-1947	402211	814826
			1.37	01/01/39 PRESENT	1939-1981	402223	814720
			1.61	04/01/39 12/31/70	1939-1970	402222	814712
			1.65	05/01/49 12/31/70	1949-1970	402229	814728
			1.69	11/01/38 PRESENT	1938-1981	402211	814739
			0.65	04/01/39 12/31/70	1939-1981	402156	814749
			0.65	01/01/76 PRESENT			
			1.27	04/01/39 12/31/70	1939-1981	402154	814742
			1.27	01/01/74 PRESENT			

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*****	*****	*****	*****	*****	*****	*****	*****
26016	COSHOCTON	OH	113	1.45 09/01/39 12/31/73	1939-1976	402204	814650
26017	COSHOCTON	OH	118	1.45 01/01/75 12/31/76	1940-1976	402153	814714
26018	COSHOCTON	OH	111	1.96 01/01/40 12/31/73	1939-1970	402204	814656
26019	COSHOCTON	OH	121	1.96 01/01/75 12/31/76	1939-1981	402139	814802
26020	COSHOCTON	OH	106	1.42 01/01/74 PRESENT	1940-1981	402143	814756
26021	COSHOCTON	OH	188	1.56 04/01/39 12/31/72	1939-1970	402127	814741
26023	COSHOCTON	OH	185	2.05 09/01/39 12/31/70	1939-1972	402131	814747
26024	COSHOCTON	OH	187	7.40 09/01/39 12/31/70	1941-1972	402130	814724
26025	COSHOCTON	OH	192	7.40 01/01/41 12/31/70	1941-1972	402130	814724
26026	COSHOCTON	OH	172	7.20 01/01/72 12/31/72	1939-1981	402140	814752
26027	COSHOCTON	OH	169	7.59 09/01/39 12/30/70	1939-1981	402140	814752
26028	COSHOCTON	OH	177	7.59 01/01/74 PRESENT	1939-1979	402156	814816
26029	COSHOCTON	OH	183	43.6 02/01/39 12/31/71	1940-1969	402128	814808
26030	COSHOCTON	OH	196	29.0 01/01/40 12/31/69	1940-1970	402158	814756
26031	COSHOCTON	OH	10	74.2 03/01/38 12/31/63	1939-1963	402131	814657
26032	COSHOCTON	OH	5	303. 122. 349. 920.	1937-1981 1938-1971 1938-1971 1938-1971	402138 402329 402435 402403	814707 814840 814808 814756
26033	COSHOCTON	OH	92	1520. 2570. 4580.	1938-1971 1938-1971 1938-1972	402328 402300 402146	814826 814905 815021
26034	COSHOCTON	OH	94	52.8	1937-1971 1960-1981	402150	814732
26035	COSHOCTON	OH	95	187. 187.	1960-1981	402147	814723
26036	COSHOCTON	OH	97	6/01/60 12/31/77	1964-1981	402136	814655
26038	COSHOCTON	OH	174	01/01/60 12/31/75	1966-1981	402157	814757
26039	COSHOCTON	OH	194	01/01/77 12/31/77	1967-1981	402157	814757

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*****	*****	*****	*****	*****	*****	*****	*****
26042	COSHOCTON	OH	20	373. 373.	01/01/42 12/31/42 01/01/66 12/31/71	1942-1971	402209 814956
26711	COSHOCTON	OH	11	293. 15.	01/01/38 12/31/71 01/01/69 12/31/73	1938-1971 1969-1973	402315 814855 402213 814845
26719	COSHOCTON	OH	19	79.2	01/01/38 12/31/71	1938-1971	402422 814741
26791	COSHOCTON	OH	91	2.68	01/01/39 12/31/47	1939-1972	402137 814739
26828	COSHOCTON	OH	128	2.68 2.68 2.68 2.68 2.68 2.68 2.68 2.68 1.20 1.20 1.20 1.20 1.20 1.20	01/01/50 12/31/50 01/01/54 12/31/54 01/01/58 12/31/72 01/01/68 12/31/72 01/01/39 12/31/46 01/01/48 12/31/48 01/01/52 12/31/54 01/01/56 12/31/57 01/01/60 12/31/72	1968-1972 1939-1981	402215 814749 402130 814745
26863	COSHOCTON	OH	163	•42	01/01/68 12/31/72	1968-1972	402215 814749
26891	COSHOCTON	OH	191	1.20	01/01/39 12/31/46	1939-1981	402130 814745
31001	FENNIMORE	WI	W-1	330. 22.8	07/01/38 12/31/69 07/01/38 12/31/68	1938-1969 1938-1968	425939 903904 425954 903927
31002	FENNIMORE	WI	W-2	52.5	07/01/38 12/31/69	1938-1969	425947 903913
31003	FENNIMORE	WI	W-3	171.	06/01/38 12/31/68	1938-1968	425949 903935
31004	FENNIMORE	WI	W-4				
34001	CHEROKEE	OK	W-1	2.23	01/01/42 06/30/60	1942-1960	364400 982306
34002	CHEROKEE	OK	W-2	4.82	01/01/42 06/30/60	1942-1960	364400 982306
34006	CHEROKEE	OK	W-6	1.75	01/01/42 06/30/60	1942-1960	364400 982306
34007	CHEROKEE	OK	W-7	1.99	01/01/42 06/30/60	1942-1960	364400 982306
34008	CHEROKEE	OK	W-8	4.72	04/01/41 06/30/55	1942-1960	364400 982306
34013	CHEROKEE	OK	W-13	4.72	07/01/56 08/31/60	1960-1967	364400 982306
35001	GUTHRIE	OK	W-1	1.99	07/01/60 12/31/67	1960-1967	364400 982306
35002	GUTHRIE	OK	W-2	35.40	01/01/32 12/31/39	1939-1948	354912 972318
35003	GUTHRIE	OK	W-3	33.40	01/01/40 12/31/53	1939-1948	354912 972318
35004	GUTHRIE	OK	W-4	3.21	01/01/31 12/31/51	1941-1948	354912 972318
35005	GUTHRIE	OK	W-5	3.13	01/01/30 12/31/51	1940-1948	354912 972318
35006	GUTHRIE	OK	W-1	5.62	01/01/31 12/31/53	1941-1948	354912 972318

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*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
35007	GUTHRIE	OK W-II	5.09	01/01/42 12/31/55	1942-1948	354912	972318		
35008	GUTHRIE	OK W-III	9.09	01/01/42 12/31/53	1942-1948	354912	972318		
35009	GUTHRIE	OK W-IV	13.4	01/01/42 12/31/53	1942-1948	354912	972318		
35010	GUTHRIE	OK W-V	15.7	01/01/42 12/31/53	1942-1948	354912	972318		
35011	GUTHRIE	OK W-VI	94.8	01/01/42 12/31/55	1942-1948	354912	972318		
37001	STILLWATER	OK W-1	16.7	07/01/51 PRESENT	1959-1979	362100	970400		
37002	STILLWATER	OK W-3	92.	07/01/51 PRESENT	1959-1979	362100	970400		
37003	STILLWATER	OK W-4	206.	07/01/51 12/31/72	1958-1972	362100	970400		
42002	RIESEL	TX C	579.	02/01/38 06/30/43	1968-1978	313111	965334		
42003	RIESEL	TX D	579.	03/01/49 PRESENT					
42004	RIESEL	TX G	1110.	12/01/37 06/30/43	1968-1978	313038	965322		
42006	RIESEL	TX W-1	1110.	03/01/49 PRESENT					
42007	RIESEL	TX W-2	4380.	01/01/38 06/30/43	1968-1978	312859	965206		
42008	RIESEL	TX W-6	176.	07/01/57 PRESENT					
42010	RIESEL	TX W-10	174.	01/01/69 PRESENT					
42011	RIESEL	TX Y	130.	07/01/37 PRESENT	1968-1978	312727	965248		
42012	RIESEL	TX Y-2	42.3	05/01/39 06/30/43	1968-1978	312719	965255		
42013	RIESEL	TX Y-4	42.3	01/01/46 PRESENT					
42014	RIESEL	TX Y-6	19.7	08/01/38 PRESENT	1968-1978	312724	965311		
42015	RIESEL	TX Y-7	309.	05/01/37 06/30/43	1968-1978	312836	965236		
42016	RIESEL	TX Y-8	309.	05/01/46 PRESENT					
42017	RIESEL	TX Y-10	132.	01/01/39 PRESENT	1968-1978	312830	965246		
			79.9	01/01/39 06/30/43	1968-1968	312830	965254		
			79.9	01/01/46 12/31/68					
			20.90	01/01/39 06/30/43	1968-1978	312826	965309		
			20.90	05/01/47 12/31/55					
			16.3	01/01/56 PRESENT					
			40.	01/01/39 06/30/43	1968-1975	312808	965249		
			40.	05/01/47 PRESENT					
			20.8	03/01/39 06/30/43	1968-1978	312822	965254		
			20.8	01/01/49 PRESENT					
			21.0	07/01/38 07/31/43	1968-1978	312831	965310		
			21.0	05/01/46 12/31/55					
			18.6	01/01/56 PRESENT					

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*****	*****	*****	*****	*****	*****	*****	*****
42023 RIESEL	TX	SW-11	3.23	03/01/38 06/30/43	1969-1978	312802	965304
42024 RIESEL	TX	SW-12	2.66	07/01/69 PRESENT	1968-1978	312848	965259
42028 RIESEL	TX	SW-17	2.97	01/01/38 06/30/43	1968-1978	312745	965314
42031 RIESEL	TX	P-1	2.90	06/01/47 PRESENT	1968-1978	312725	965235
42032 RIESEL	TX	P-2	2.99	02/01/39 06/30/43	1968-1968	312724	965234
42033 RIESEL	TX	P-3	.24	01/01/60 06/01/68	1968-1968	312723	965233
42034 RIESEL	TX	P-4	.24	01/01/38 06/30/43	1968-1968	312722	965232
42035 RIESEL	TX	SW-19	.24	01/01/60 06/01/68	1968-1968	312835	965349
42036 RIESEL	TX	SW-20	3.25	01/01/70 PRESENT	1970-1978	312833	965344
42037 RIESEL	TX	Y-13	3.21	01/01/70 PRESENT	1970-1978	312836	965239
42038 RIESEL	TX	Y-14	11.3	01/01/69 PRESENT	1969-1978	312811	965255
42039 RIESEL	TX	W-12	5.6	01/01/69 PRESENT	1969-1978	312756	965307
42040 RIESEL	TX	W-13	9.9	01/01/69 PRESENT	1969-1978	312757	965308
			11.3	01/01/69 PRESENT	1969-1978		
44001 HASTINGS	NE	W-3	481.	08/01/38 12/31/67	1939-1967	401547	982231
44002 HASTINGS	NE	W-5	411.	07/01/39 12/31/67	1939-1967	401441	982148
44003 HASTINGS	NE	W-8	2086.	01/01/38 12/31/67	1938-1967	401351	982241
44004 HASTINGS	NE	W-11	3490.	01/01/39 12/31/67	1939-1967	401251	982201
44005 HASTINGS	NE	1-H	3.62	03/01/39 12/31/67	1939-1967	401602	982208
44006 HASTINGS	NE	2-H	3.40	03/01/39 12/31/54	1939-1967	401554	982212
			3.40	01/01/58 12/31/67			
44007 HASTINGS	NE	3-H	3.95	03/01/39 12/31/58	1939-1967	401550	982224
44008 HASTINGS	NE	4-H	3.77	01/01/59 12/31/67	1939-1967	401556	982224
44009 HASTINGS	NE	5-H	3.84	04/01/39 12/31/54	1939-1967	401600	982227

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*****	*****	*****	*****	*****	*****	*****	*****
44010 HASTINGS	NE 6-H	4.16	04/01/39 12/31/56	1939-1967	401604	982227	
		4.16	01/01/58 12/31/58				
		4.01	01/01/59 12/31/67				
		4.15	04/01/39 12/31/56				
		4.15	01/01/58 12/31/58				
		4.26	01/01/59 12/31/67				
		3.93	03/01/39 01/04/55	1939-1967	401606	982226	
		3.93	01/01/58 12/31/58				
		3.97	01/01/59 12/31/67				
		3.78	04/01/39 12/31/54	1939-1954	401551	982239	
		3.98	04/01/39 12/31/54	1939-1954	401558	982243	
		3.85	04/01/39 12/31/54	1939-1954	401555	982249	
		3.66	04/01/39 12/31/54	1939-1954	401554	982251	
		3.41	04/01/39 12/31/54	1939-1954	401540	982301	
44013 HASTINGS	NE 9-H	519.3	06/01/39 12/31/69	1939-1969	325026	1093130	
44014 HASTINGS	NE 10-H	682.4	01/01/39 12/31/69	1939-1969	325020	1100012	
44015 HASTINGS	NE 11-H	764.	01/01/39 12/31/69	1939-1969	323722	1093642	
44016 HASTINGS	NE 12-H	723.	01/01/39 12/31/69	1939-1969	322522	1093930	
44017 HASTINGS	NE 13-H						
45001 SAFFORD	AZ W-I	246.	08/01/39 12/31/69	1939-1969	351042	1070130	
45002 SAFFORD	AZ W-II	40.1	08/01/39 12/31/69	1939-1969	351100	1070118	
45003 SAFFORD	AZ W-IV	155.	07/01/39 12/31/46	1939-1969	351124	1070124	
45004 SAFFORD	AZ W-V	183.	01/01/47 12/31/56				
		168.3	01/01/57 12/31/64				
		176.	07/01/65 12/31/69				
47001 ALBUQUERQUE	NM W-I	146.8	11/01/37 12/31/42	1937-1942	464620	1165639	
47002 ALBUQUERQUE	NM W-II	177.9	11/01/37 12/31/44	1937-1944	464638	1170000	
47003 ALBUQUERQUE	NM W-III	53.11	12/07/76 07/05/79	1976-1979			
		2.22	12/07/76 07/05/79	1976-1979			
56001 MOSCOW	ID W-1	82.	07/01/49 12/31/81	1949-1981			
56002 MOSCOW	ID W-2	45.5	09/01/49 12/31/81	1949-1981			
56003 MOSCOW	ID ROCKMAIN	390.0	12/08/51 08/19/79	1951-1979			
56004 MOSCOW	ID ROCKCHCK	63.0	04/11/50 12/03/78	1950-1978			
61001 MONTICELLO	IL IA						
61002 MONTICELLO	IL IB						
61003 MONTICELLO	IL W1						
61004 MONTICELLO	IL W2						

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*****	*****	*****	*****	*****	*****	*****	*****
61011 MONTICELLO	IL	IA1	30.5	07/01/49 12/31/81	1980-1981		
61012 MONTICELLO	IL	IB1	33.0	09/01/49 12/31/81	1980-1981		
61021 MONTICELLO	IL	IA2	18.2	07/01/49 12/31/81	1980-1981		
61022 MONTICELLO	IL	IB2	25.0	09/01/49 12/31/81	1981-1981		
61031 MONTICELLO	IL	IA3	3.9	07/01/49 12/31/81	1980-1981		
62001 OXFORD	MS	W-4	2000.	01/01/57 12/31/64	1969-1974	344228	892939
62002 OXFORD	MS	W-5	1130.	01/01/57 09/30/69	1969-1974	344155	893044
62003 OXFORD	MS	W-10	1000.	10/01/69 PRESENT	1969-1971	344141	893610
62004 OXFORD	MS	W-12	5530.	01/01/57 PRESENT	1969-1971	344200	893220
62005 OXFORD	MS	W-17	22800.	01/01/57 PRESENT	1969-1974	344511	893454
62007 OXFORD	MS	W-24	32100.	01/01/57 PRESENT	1969-1974	344548	893454
62008 OXFORD	MS	W-28	511.	01/01/57 12/31/61	1969-1971		
62010 OXFORD	MS	W-32	1080.	01/01/57 PRESENT	1969-1971	344406	892724
62011 OXFORD	MS	W-34	20000.	01/01/57 PRESENT	1969-1974	344256	893730
			75000.	01/01/57 12/31/69	1969-1974	344534	894145
62012 OXFORD	MS	W-35	7550.	01/01/57 PRESENT	1969-1971	343909	893810
62014 OXFORD	MS	WC-2	1.45	01/01/58 12/31/72	1965-1972		
62017 OXFORD	MS	W-17A	3200.	01/01/57 PRESENT	1969-1971	344548	894325
62018 OXFORD	MS	W-35A	1090.	01/01/57 PRESENT	1969-1971	343915	893818
63001 TOMBSTONE	AZ	W-1	36900.	01/01/54 12/31/74	1968-1974	314445	1100910
63002 TOMBSTONE	AZ	W-2	28100.	01/01/54 12/31/74	1968-1974	314405	1100555
63003 TOMBSTONE	AZ	W-3	2220.	05/01/54 12/31/74	1968-1974	314357	1100325
63004 TOMBSTONE	AZ	W-4	560.	06/01/54 12/31/74	1968-1974	314419	1100240
63005 TOMBSTONE	AZ	W-5	5510.	01/01/54 12/31/73	1968-1973		
63006 TOMBSTONE	AZ	W-6	23500.	01/01/62 12/31/74	1968-1974	314355	1100305
63007 TOMBSTONE	AZ	6307	3340.	06/01/66 12/31/74	1968-1974	314402	1100555
63008 TOMBSTONE	AZ	6308	3830.	07/31/63 12/31/74	1968-1974	314323	1100239
63009 TOMBSTONE	AZ	6309	5830.	01/01/68 12/31/74	1968-1974	314308	1100130
63010 TOMBSTONE	AZ	6310	4110.	01/01/68 12/31/74	1968-1974	314315	1100123
63011 TOMBSTONE	AZ	6311	2035.	01/01/63 12/31/74	1968-1974	314428	1095940
63015 TOMBSTONE	AZ	6315	5912.	06/01/65 12/31/74	1968-1974	314246	1100225

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*****	*****	*****	*****	*****	*****	*****	*****
63101	TOMBSTONE	AZ	63101	2.8	01/01/62 PRESENT	1962-1976	314430 1100315
63102	TOMBSTONE	AZ	63102	3.9	01/01/63 PRESENT	1963-1976	314430 1100315
63103	TOMBSTONE	AZ	63103	8.30	07/01/63 PRESENT	1963-1976	314430 1100315
63104	TOMBSTONE	AZ	63104	11.0	01/01/63 PRESENT	1963-1976	314430 1100315
63105	TOMBSTONE	AZ	63105	.56	01/01/65 PRESENT	1965-1976	314430 1100315
63106	TOMBSTONE	AZ	63106	1.7	01/01/65 PRESENT	1965-1976	314430 1100315
63112	TOMBSTONE	AZ	63112	4.6	01/01/62 PRESENT	1962-1975	314410 1095640
64001	SANTA ROSA	NM	W-1	42880.	01/01/55 04/01/79	1955-1978	345153 1041223
66001	MOOREFIELD	WV	W-1	8.25	01/01/58 12/31/61	1958-1967	390245 790245
66002	MOOREFIELD	WV	W-2	8.57	01/01/62 12/31/67	1958-1967	390250 790230
66004	MOOREFIELD	WV	W-4	10.06	01/01/58 12/31/61	1958-1967	390253 790155
66005	MOOREFIELD	WV	W-5	9.73	01/01/62 12/31/67	1958-1967	390253 790149
67001	N. DANVILLE	VT	W-1	10611.20	10/01/58 12/31/76	1958-1973	442700 720406
67002	N. DANVILLE	VT	W-2	146.	09/01/58 10/11/78	1961-1971	442732 720539
67003	N. DANVILLE	VT	W-3	2067.	01/01/60 PRESENT	1960-1979	442835 720733
67004	N. DANVILLE	VT	W-4	10752.	01/01/60 12/31/74	1960-1973	442727 720346
67005	N. DANVILLE	VT	W-5	27469.	01/01/60 05/16/79	1960-1973	442604 720222
67006	N. DANVILLE	VT	W-6	168.	01/01/68 12/31/75	1968-1971	442843 720625
67007	N. DANVILLE	VT	W-7	5389.	01/01/61 12/31/76	1961-1972	442729 720600
67008	N. DANVILLE	VT	W-8	3866.	01/01/61 05/16/79	1961-1979	442738 720546
67009	N. DANVILLE	VT	W-9	116.	01/01/61 07/15/78	1961-1973	442926 720948
67010	N. DANVILLE	VT	W-10	4032.	01/01/63 12/31/75	1963-1973	442640 720345
67011	N. DANVILLE	VT	W-11	562.	01/01/64 12/31/75	1964-1972	442700 720245
67012	N. DANVILLE	VT	W-12	502.	01/01/64 12/31/75	1964-1972	442715 720412
67013	N. DANVILLE	VT	W-13	254.	01/01/65 12/31/75	1965-1972	442814 720621
67014	N. DANVILLE	VT	W-14	915.	01/01/65 12/31/75	1965-1972	442818 720624
67016	N. DANVILLE	VT	W-16	736.	01/01/65 12/31/75	1965-1967	442841 720731
68001	REYNOLDS	ID	W-1	57700.	01/01/63 PRESENT	1963-1975	431549 1164510
68002	REYNOLDS	ID	W-2	8990.	01/01/64 PRESENT	1964-1975	431521 1164510
68003	REYNOLDS	ID	W-3	7846.	01/01/65 PRESENT	1965-1975	431442 1164530

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WATER DATA LABORATORY

WS ID	LOCATION	WS NAME	ACRES	PERIOD FOR ACREAGE	AVAIL	LAT	LONG
*****	*****	*****	*****	*****	*****	*****	*****
68004 REYNOLDS	ID	W-4	13453.	01/01/66 PRESENT	1966-1975	430833	1164542
68011 REYNOLDS	ID	W-11	306.	01/01/67 12/31/78	1967-1975	431524	1164901
68012 REYNOLDS	ID	W-12	205.	01/01/67 12/31/77	1967-1975	431430	1164245
68013 REYNOLDS	ID	W-13	100.	01/01/63 PRESENT	1963-1975	430416	1164527
68014 REYNOLDS	ID	W-14	33.	01/01/67 PRESENT	1967-1975	430853	1164414
68015 REYNOLDS	ID	W-15	126.	01/01/65 PRESENT	1965-1975	430416	1164517
68016 REYNOLDS	ID	W-16	3482.	01/01/73 PRESENT	1973-1975	430726	1164625
68021 REYNOLDS	ID	W-21	63.4	01/01/70 12/31/76	1970-1975	430726	1164338
68022 REYNOLDS	ID	W-22	15.7	01/01/70 12/31/75	1970-1975	430700	1164330
68033 REYNOLDS	ID	W-33	350.	01/01/68 12/31/74	1968-1973	430930	1164010
68034 REYNOLDS	ID	W-34	2360.	01/01/68 12/31/74	1968-1973	430930	1164030
69001 CHICKASHA	OK	100	2339840.	10/01/61 12/31/79	1961-1977	350500	981400
69002 CHICKASHA	OK	200	2613000.	10/01/61 12/31/74	1961-1974	350500	980500
69004 CHICKASHA	OK	400	273000.	10/01/61 12/31/74	1961-1966	350500	975600
69005 CHICKASHA	OK	500	2725760.	10/01/61 12/31/68	1961-1966	350500	975600
69006 CHICKASHA	OK	600	112910.	10/01/61 12/31/68	1964-1977	350500	975400
69007 CHICKASHA	OK	700	2769920.	01/01/64 04/30/78	1964-1977	350500	974800
69008 CHICKASHA	OK	611	43840.	01/01/64 04/30/78	1964-1970	345900	974800
69009 CHICKASHA	OK	612	3011800.	08/01/63 12/31/72	1961-1977	345500	974600
69010 CHICKASHA	OK	111	243050.	08/01/63 12/31/72	1961-1977	345500	974600
69011 CHICKASHA	OK	131	3061100.	10/01/61 12/31/78	1961-1977	345500	974600
69012 CHICKASHA	OK	411	50830.	10/01/61 12/31/78	1961-1974	345700	975100
69013 CHICKASHA	OK	511	4845.	10/01/61 12/31/74	1961-1974	345700	975100
69014 CHICKASHA	OK	110	563.	10/01/61 12/31/74	1962-1977	350300	981500
69015 CHICKASHA	OK	522	16634.	10/01/62 04/30/78	1962-1977	350300	981000
69016 CHICKASHA	OK	512	25660.	09/01/62 04/30/78	1962-1977	350300	975800
69017 CHICKASHA	OK	621	33300.	09/01/62 12/31/74	1962-1974	350300	975100
69018 CHICKASHA	OK	121	38020.	10/01/62 12/31/78	1962-1977	350500	981100
69019 CHICKASHA	OK	513	25020.	04/01/63 04/30/78	1963-1977	345700	975700
69027 CHICKASHA	OK	311	132990.	05/01/63 PRESENT	1963-1977	345700	975700
			22530.	08/01/63 04/30/78	1963-1977	350500	975000
			21310.	10/01/63 PRESENT	1963-1977	350000	974600
			131780.	10/01/63 12/31/74	1964-1974	351030	981530
			12314.	01/01/64 04/30/78	1964-1977	350353	974913
			15206.	01/01/66 04/30/78	1966-1977	350844	975730

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WATER DATA LABORATORY

WS ID	LOCATION	WS NAME	ACRES	PERIOD FOR ACREAGE	AVAIL	LAT	LONG
*****	*****	*****	*****	*****	*****	*****	*****
71004	TREYNOR	IA W-4	150.	01/01/64 PRESENT	1964-1978	411236	953805
71005	TREYNOR	IA W-5	389.	01/01/63 12/31/73	1963-1973	411018	952655
72001	COTTONWOOD	SD H-2	2.13	01/01/63 06/30/73	1968-1972		
72002	COTTONWOOD	SD L-2	2.38	01/01/63 06/30/73	1968-1972		
72005	COTTONWOOD	SD M-1	2.35	01/01/63 06/30/73	1968-1972		
73001	FORT STAUNTON	NM 7301	24.4	04/01/66 PRESENT	1967-1976	332747	1053138
73002	FORT STAUNTON	NM 7302	32.2	04/01/66 PRESENT	1967-1976	332753	1053133
74002	TIFTON	GA W-TB	82624.00	01/01/69 PRESENT	1971-1980	312854	833503
74003	TIFTON	GA W-TN	3872.00	01/01/68 PRESENT	1970-1980	313103	833511
74004	TIFTON	GA W-TO	3936.60	01/01/68 PRESENT	1968-1980	313015	833432
74005	TIFTON	GA W-TF	28403.80	01/01/68 PRESENT	1969-1980	313617	833753
74006	TIFTON	GA W-TI	12358.00	01/01/68 PRESENT	1968-1980	314028	834126
74007	TIFTON	GA W-TJ	5466.00	01/01/70 PRESENT	1968-1980	314132	834208
74008	TIFTON	GA W-TK	4141.00	01/01/68 PRESENT	1968-1980	314147	834151
74009	TIFTON	GA W-TM	672.00	01/01/68 PRESENT	1968-1980	314419	834328
75001	AHOSKIE	NC W-A1	36480.	07/01/64 12/31/74	1968-1972	361654	770006
75002	AHOSKIE	NC W-A2	15360.	07/01/64 12/31/74	1968-1972	361654	770954
75003	AHOSKIE	NC W-A3	2368.	07/01/64 12/31/74	1968-1972	361448	771406
75004	AHOSKIE	NC W-A4	1664.	07/01/64 12/31/74	1968-1972	361639	770048
77001	LA UPAHOEHOE	HI W-1	2.05	01/01/72 12/31/73	1972-1978	195800	1551500
77003	WAIALUA	HI W-3	1.52	01/01/74 12/31/78			
77006	KUNIA	HI W-6	7.02	01/01/72 12/31/78	1972-1977	213600	1580200
			7.07	01/01/75 01/01/77	1975-1977	212500	1580400

## APPENDIX B - SUMMARY OF THE ARS WATER DATA BANK

The following tables represent the data stored in the ARS Water Data Bank. The effective date of the report appears first. For more current information, refer to the **SPRDSHT** procedure in Chapter 4 (p. 46). Location number and name are in the next line. Rain gage identification codes and watershed numbers (as they appear in the ARS Water Data Bank files) are in the left column. Over the other columns are the years (1936-85). An "X" in the table indicates that data are stored in the S&R files (breakpoint) for that station and year and a "D" indicates that only daily values are available. An "X" or a "D" does not necessarily mean that data for a complete year are stored in the ARS Water Data Bank. Since stations typically are installed in midyear, data for the first year of a particular station may be incomplete.

SUMMARY OF THE ARS WATER DATA BANK  
 WATER DATA LABORATORY

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PAGE 1

L08 - VERO BEACH, FL

	4	4	5	5	6	6	7	7	8	8
RG	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000001	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	.
000002	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	
000003	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	
000004	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	
000005	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	
000006	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDXX.D	.	.	.	.	
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

7 RAINAGES

14 STATION YEARS - BREAKPOINT  
 154 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
002	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDDD.D	.	.	.	.	.
003	.	.	.	.	D.DDDDD.DDDDD.DDDDD.DDDDD.D	.	.	.	.	.
005	.	.	.	.	.	DD.DDDDD.DDDDD.D	.	.	.	.

3 WATERSHEDS

0 STATION YEARS - BREAKPOINT  
 57 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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PAGE 2

L09 - AMERICUS, GA

RG	4	4	5	5	6	6	7	7	8	8
000001	.	XXX.XXX	.	.	.	.	.	.	.	.
000002	.	XXX.XX	.	.	.	.	.	.	.	.
000003	.	XXX.	.	.	.	.	.	.	.	.
000004	.	XXX.XX	.	.	.	.	.	.	.	.
000005	.	XXX.XXX	.	.	.	.	.	.	.	.
000006	.	XXX.XXX	.	.	.	.	.	.	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

6 RAINGAGES

31 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

WS	4	4	5	5	6	6	7	7	8	8
001	.	XXX.XXX	.	.	.	.	.	.	.	.
002	.	XXX.XX	.	.	.	.	.	.	.	.
003	.	XXX.XX	.	.	.	.	.	.	.	.
004	.	XXX.XXX	.	.	.	.	.	.	.	.

4 WATERSHEDS

22 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

12/29/82

PAGE 3

L10 - WATKINSVILLE, GA

	4	4	5	5	6	6	7	7	8	8
RG	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000R01	.	.	.	.	.	.	.	XXXX.	.	.
000R02	.	.	.	.	.	.	.	XXX.	.	.
000R03	.	.	.	.	.	.	.	XXXX.	.	.
000R04	.	.	.	.	.	.	.	XXX.	.	.
000001	.	.	X.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXX	.	.	.	.	.	.	.

5 RAINGAGES

48 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
001	.	.	X.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.	.	.	.	.	.	.	.
011	.	.	.	.	.	.	.	XXXX.	.	.
012	.	.	.	.	.	.	.	XXX.	.	.
013	.	.	.	.	.	.	.	XXXX.	.	.
014	.	.	.	.	.	.	.	XXX.	.	.

5 WATERSHEDS

50 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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PAGE 4

L13 - BLACKSBURG, VA

	4	4	5	5	6	6	7	7	8	8
RG	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
P04R01	.	.	.	.	.	X .	X.XXX	.	.	.
P05R02	.	.	.	.	.	XXXX.XXXXXX.XXX	.	.	.	.
P06R03	.	.	.	.	.	XXXX.XXXXXX.XXX	.	.	.	.
P07R01	.	.	.	.	.	XXXX.XXXXXX.XXXXXX.XX	.	.	.	.
P08R02	.	.	.	.	.	XXXX.XXXXXX.XXXXXX.XX	.	.	.	.
P09R03	.	.	.	.	.	.	XX.XXXXXX.XX	.	.	.
P10R04	.	.	.	.	.	.	XX.XXXXXX.XX	.	.	.
P11R05	.	.	.	.	.	.	.	X .	.	.
P19R01	.	.	.	.	.	XXXX.XXXXXX.XXXXXX.XX	.	.	.	.
P20R02	.	.	.	.	.	XXXX.XXXXXX.XXXXXX.XX	.	.	.	.
P21R01	.	.	.	.	.	.	X.XXX	.	.	.
P22R02	.	.	.	.	.	XXX.XXXXXX.XXX	.	.	.	.
P23R01	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.	.	.
P24R02	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.	.	.
P25R03	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.	.	.
P26R01	.	.	.	.	.	.	X.XXXXXX.XX	.	.	.
P27R02	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.	.	.
P28R01	.	.	.	.	.	.	X.XXX	.	.	.
P29R02	.	.	.	.	.	XXX.XXXXXX.XXX	.	.	.	.
P30R01	.	.	.	.	.	XX.XXXXXX.XXX	.	.	.	.
P31R02	.	.	.	.	.	XX.XXXXXX.XXX	.	.	.	.
P32R03	.	.	.	.	.	XX.XXXXXX.XXX	.	.	.	.
P33R01	.	.	.	.	.	X . X.XXX	.	.	.	.
P34R02	.	.	.	.	.	X.XXXXXX.XXX	.	.	.	.
P35R01	.	.	.	.	.	X.XXXXXX.XXXXXX.XX	.	.	.	.
P36R02	.	.	.	.	.	X.XXXXXX.XXXXXX.XX	.	.	.	.
P37R03	.	.	.	.	.	X.XXXXXX.XXXXXX.XX	.	.	.	.
.....										

27 RAINAGES

293 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
006	.	.	.	.	.	XXXX.XXXXXX.XXXX	.	.	.	.
007	.	.	.	.	.	XXXX.XXXXXX.XXXXXX.XX	.	.	.	.
008	.	.	.	.	.	XXXX.XXXXXX.XXXXXX.XX	.	.	.	.
009	.	.	.	.	.	XXX.XXXXXX.XXXX	.	.	.	.
010	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.	.	.
011	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.	.	.
012	.	.	.	.	.	XXX.XXXXXX.XXXX	.	.	.	.
013	.	.	.	.	.	XX.XXXXXX.XXXX	.	.	.	.
014	.	.	.	.	.	X.XXXXXX.XXXX	.	.	.	.
015	.	.	.	.	.	X.XXXXXX.XXXXXX.XX	.	.	.	.
.....										

10 WATERSHEDS

133 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L16 - KLINGERSTOWN, PA

	4	4	5	5	6	6	7	7	8	8
RG	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5
00MB37	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.
00ME37	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.
000001	.	.	.	.	.	.	.	X.X XXX.XX	.	.
000002	.	.	.	.	.	.	.	XXX.XX	.	.

4 RAINGAGES

43 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5
006	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
010	.	.	.	.	.	.	.	X.XXXXXX.X	.	.
020	.	.	.	.	.	.	.	X.XXXXXX.X	.	.

3 WATERSHEDS

22 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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PAGE 6

L17 - EDWARDSVILLE, IL

	4	4	5	5	6	6	7	7	8	8
RG	.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000001 .	XXX.XXXXXX.XXXXXX.XXXXXX.				.	.	.	.	.	.

1 RAINGAGES                    18 STATION YEARS - BREAKPOINT  
                                  0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
001 .	XXX.XXXXXX.XXXXXX.XXXXXX.				.	.	.	.	.	.
002 .	XXX.XXXXXX.XXXXXX.XXXX	.			.	.	.	.	.	.
003 .	XXX.XX	.	.		.	.	.	.	.	.
004 .	XXX.XXXXXX.XXXXXX.XXXXXX.				.	.	.	.	.	.

4 WATERSHEDS                58 STATION YEARS - BREAKPOINT  
                                 0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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PAGE 7

L21 - IOWA CITY, IA

4 4 5 5 6 6 7 7 8 8  
RG ....0....5....0....5....0....5....0....5....0....5....0....5  
000001 . . . . . XXX.XXXXX.XXXXX.XXXX . . . .

1 RAINGAGES 17 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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PAGE 8

L22 - AMES, IA

	4	4	5	5	6	6	7	7	8	8
RG	.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000001	.	.	.	.	.	.	XXX.XX	.	.	.
000002	.	.	.	.	.	.	XX.XX	.	.	.
000003	.	.	.	.	.	.	XX.XX	.	.	.
000031	.	.	.	.	.	.	.	.	XXXXXX.	.
000032	.	.	.	.	.	.	.	.	XXXXXX.	.
000033	.	.	.	.	.	.	.	.	XXXXXX.	.
000034	.	.	.	.	.	.	.	.	XXXXXX.	.
000035	.	.	.	.	.	.	.	.	XXXXXX.	.
000036	.	.	.	.	.	.	.	.	XXXXXX.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

9 RAINGAGES

43 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
003	.	.	.	.	.	.	.	.	XXXXXX.	.
004	.	.	.	.	.	.	.	.	XXXXXX.	.
005	.	.	.	.	.	.	.	.	XXXXXX.	.
006	.	.	.	.	.	.	.	.	XXXXXX.	.
007	.	.	.	.	.	.	.	.	XXXXXX.	.

5 WATERSHEDS

25 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

PAGE 9

L25 - MCCREDIE, MO

RG 4 4 5 5 6 6 7 7 8 8  
.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5  
000004 . .XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXX . . . .

1 RAINAGES 34 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

WS 4 4 5 5 6 6 7 7 8 8  
.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5  
001 . .XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXX . . .

1 WATERSHEDS 38 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L26 - COSHOCTON, OH

	4	4	5	5	6	6	7	7	8	8
RG	.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5									
00MC04	.	.	.	.	XX.XXXXXX.XXXXXX.XXXXXX.	.	.	.	.	.
00MC06	.	.	.	.	XX.XXXXXX.XXXXXX.XXXXXX.	.	.	.	.	.
00Y101	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X								
00Y102	.	XXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X								
00Y103	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X								
000002	.	.	.	.	.	.	.	X	.	.
000008	.	.	.	.	.	.	.	X	.	.
000009	.	.	.	.	.	.	.	X	.	.
000027	.	XXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XX							.	.
000031	.	.	.	.	.	.	.	X	.	.
000039	.	.	XXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X					.	.	.
000054	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X						.	.	.
000055	.	.	.	.	.	.	.	XX.XXX	.	.
000056	.	XXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XX						.	.	.
000091	.	X.XX X.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XX						.	.	.
000100	.	XXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XX XX.XXXXXX.X								
000103	.	XXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XX X.XXXXXX.X								
000107	.	.	XXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X							
000108	.	XXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X								
000109	.	X.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X								
000113	.	X.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X								
000115	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X								
000116	.	XXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.						.	.	.
000119	.	XXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X								
000120	.	.	.	.	.	.	.	XX.XX	.	.
000128	.	.	XXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.					.	.	.

26 RAIN GAGES

744 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8	
WS	.....	0.....	5.....	0.....	5.....	0.....	5.....	0.....	5.....	0.....	
001	.	XXXXX	XXXXXX	X	.	.	X	XXXXXX	XXXXXX	XXXXXX	XXXXXX
002	.	XXXXX	XXXXXX	X	.	.	.	.	XX.XX	.	XXXXXX
003	.	XXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XX	XXXXXX	
004	.	XXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXX	.	XX	XXXXXX
005	.	XXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	X	.	XX	X
006	.	XX	XXXXXX	X	.	.	.	.	.	.	.
007	.	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXX	.	X	XXXXXX
008	.	.	.	XXX	XXXXXX	XXXXXX	XXXXXX	XXXX	.	.	.
009	.	XXX	XXXXXX	XX	.	.	.	.	.	.	.
010	.	XX	XXXXXX	X	.						
011	.	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	.	.	.
012	.	.	.	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	.	.	.
013	.	XXX	XXXXXX	X	.						
014	.	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	.	XXXXXX	X
015	.	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XX	XXXXXX	X
016	.	XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXX	X	.

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L26 - COSHOCTON, OH

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
017 .	X.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXX X.X	.	.
018 .	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	.	.	.	.
019 .	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	X XX.	XXXXXX.X	.	.
020 .	X.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XX XX.	XXXXXX.X	.	.
021 .	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	.	.	.	.
023 .	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	X	.	.	.
024 .	.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	X XX.	.	.	.
025 .	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	.	XX.XXXXXX.X	.	.
026 .	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	X XX.	XXXXXX.	.	.
027 .	X.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	.	.	.	.
028 .	X.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	.	.	.	.
029 .	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXX	.	.	.	.
030 .	XXXX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.X	.	.
031 .	XXX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	X	.	.	.
032 .	XXX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	X	.	.	.
033 .	XXX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	X	.	.	.
034 .	XXX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	X	.	.	.
035 .	XXX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	X	.	.	.
036 .	XXXX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	X	.	.	.
038 .	.	.	.	.	.	X.XXXXXX.	XXXXXX.	XXXXXX.XX	XX.X	.
039 .	.	.	.	.	.	X.XXXXXX.	XXXXXX.	XXXXXX.	X XX.X	.
040 .	.	.	.	.	.	.	XX.XXXXXX.	.	XX.XXXXXX.X	.
041 .	.	.	.	.	.	.	XXX.XX	X.XXXXXX.X	.	.
042 .	.	X	.	.	.	.	XXXXXX.X	.	.	.
711 .	XXX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	X	.	.	.
719 .	.	.	.	.	.	.	.	XX.XXX	.	.
791 .	XXX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	X	.	.	.
828 .	XX.XXXXXX.	XX	X	.	X	X	XXX.XXXXXX.	XXXXXX.XX	.	.
863 .	.	.	.	.	.	.	XXX.XX	.	.	.
891 .	XX.XXXXXX.	X	X	.	XXX	.XX	X.XXXXXX.	XXXXXX.XX	.	XX.X
.....										

46 WATERSHEDS

1,378 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L31 - FENNIMORE, WI

	4	4	5	5	6	6	7	7	8	8
RG	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000006 .	XX.XXXXXX.	XXXXXX.								

1 RAINGAGES	31 STATION YEARS - BREAKPOINT
	0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
001 .	XXX.	XXXXXX.	.	.						
002 .	X	X.	XXXXXX.	X	XX.	X	.XX	X	X	.
003 .	X	X.	XXXXXX.	X	XX.	XX	X	.X	XX.	XXXX
004 .	XXX.	XXXXXX.	X	XX.	X	.XX	XX.	XX.	X	.

4 WATERSHEDS	98 STATION YEARS - BREAKPOINT
	0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

PAGE 13

L33 - BENTONVILLE, AR

	4	4	5	5	6	6	7	7	8	8
RG	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....
000001 .	XX.XXXXX.XX	.	.	.	.	.	.	.	.	.
000002 .	XXX.XXXXX.XX	.	.	.	.	.	.	.	.	.
000003 .	X . XXXX.XX	.	.	.	.	.	.	.	.	.
000005 .	XXX.XXXXX.XX	.	.	.	.	.	.	.	.	.

4 RAINGAGES

36 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....
001 .	XXX.XXX	.	.	.	.	.	.	.	.	.
002 .	XXX.XXX	.	.	.	.	.	.	.	.	.
003 .	XX.XXX	.	.	.	.	.	.	.	.	.
004 .	XX.XXX	.	.	.	.	.	.	.	.	.
005 .	XX.XXX	.	.	.	.	.	.	.	.	.
006 .	XX.XXX	.	.	.	.	.	.	.	.	.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

6 WATERSHEDS

32 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L34 - CHEROKEE, OK

	4	4	5	5	6	6	7	7	8	8
RG	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5
000G09	.	.XXXXXX.	.XXXXXX.	.XXXXXX.	.XXXXXX.	.XXXXXX.	.XX	.	.	.

1 RAINGAGES                    27 STATION YEARS - BREAKPOINT  
                                  0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5
001	.	. XXXX.	.XXXXXX.	.XXXXXX.	.XXXXXX.	.	.	.	.	.
002	.	. XXXX.	.XXXXXX.	.XXXXXX.	. XXXX.	.	.	.	.	.
006	.	. XXXX.	.XXXXXX.	.XXXXXX.	.XXXXXX.	.	.	.	.	.
007	.	. XXXX.	.XXXXXX.	.XXXXXX.	.XXXXXX.	.	.	.	.	.
008	.	. XXXX.	.XXXXXX.	.XXXXXX.	.XXXXXX.	.	.	.	.	.
013	.	.	.	.	.	X.XXXXXX.	XX	.	.	.
	.	.	.	.	.	.	.	.	.	.

6 WATERSHEDS                101 STATION YEARS - BREAKPOINT  
                                  0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L35 - GUTHRIE, OK

	4	4	5	5	6	6	7	7	8	8
RG	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000G12	XXXX.XXXXX.XXXXX.XXXXX.X	.	.	.	.	.	.	.	.	.

1 RAINGAGES                    20 STATION YEARS - BREAKPOINT  
                                0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
001	.	XX.XXXXX.XXX	.	.	.	.	.	.	.	.
002	.	XX.XXXXX.XXX	.	.	.	.	.	.	.	.
003	.	.XXXXX.XXX	.	.	.	.	.	.	.	.
004	.	X.XXXXX. XX	.	.	.	.	.	.	.	.
005	.	XX.XXXXX.XX	.	.	.	.	.	.	.	.
006	.	. XXXX.XXX	.	.	.	.	.	.	.	.
007	.	. XXXX.XXX	.	.	.	.	.	.	.	.
008	.	. XXXX.XXX	.	.	.	.	.	.	.	.
009	.	. XXXX.XXX	.	.	.	.	.	.	.	.
010	.	. XXXX.XXX	.	.	.	.	.	.	.	.
011	.	. XXXX.XXX	.	.	.	.	.	.	.	.
	.	.	.	.	.	.	.	.	.	.

11 WATERSHEDS                87 STATION YEARS - BREAKPOINT  
                                0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L37 - STILLWATER, OK

	4	4	5	5	6	6	7	7	8	8
RG	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000001	.	.	.	.	.	.	.	XX.XXXXXX.XXXX	.	.
000002	.	.	.	.	.	.	.	XXX.XX	.	.
000003	.	.	.	.	XXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXX	.	.	.	.	
000004	.	.	.	.	XXXXX.XXXXXX.XXXXXX.XX XX.XX	.	.	.	.	

4 RAINGAGES

65 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
001	.	.	.	.	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXX	.	.	.	
002	.	.	.	.	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXX	.	.	.	
003	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.	.	

3 WATERSHEDS

57 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L42 - RIESEL, TX

	4	4	5	5	6	6	7	7	8	8
RG	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000W1B	.	.	.	.	.	.	XX.XXXXXX.	XXXXXX.X	.	.
000W2A	.	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.X	.	.
000W5A	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
0000W2	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
0000W3	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
0000W4	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
0000W6	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
0000W9	.	.	.	.	.	.	X	.	.	.
000005	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
000014	.	XX.XXX	.	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.X	.	.
00002A	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
000020	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
000069	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
000070	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
000089	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
00012A	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
00013A	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
00026A	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
00030A	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
00043A	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
00048A	.	.	.	.	.	.	XXXX.XXXXXX.	XXXXXX.XXXXXX.X	.	.
00056A	.	.	.	.	.	.	XXX	.XXXXXX.	XXXXXX.X	.
00056B	.	.	.	.	.	.	X	.XXXXXX.	XXXXXX.X	.
00065A	.	.	.	.	.	.	XXX	.XXXXXX.	XXXXXX.X	.
00069B	.	.	.	.	.	.	XXX	.XXXXXX.	XXXXXX.X	.
00070A	.	.	.	.	.	.	XX	.XXXXXX.	XXXXXX.X	.
00074A	.	.	.	.	.	.	XXX	.XXXXXX.	XXXXXX.X	.
00075A	.	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.XXXXXX.X	.	.
00084A	.	.	.	.	.	.	XXX	.XXXXXX.	XXXXXX.X	.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

29 RAINGAGES

477 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
002	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
003	.	XX.XXX	.	XX.XXXXXX.	XXXXXX.X	.	XXX.XXXXXX.	XXXXXX.X	.	.
004	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
006	.	X.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.X	.	XXX.XXXXXX.	XXXXXX.X	.	.
007	.	.	.	.	.	.	XXX.XXXXXX.	XXX.X	.	.
008	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
010	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
011	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
012	.	X.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.X	.	XXX.XXXXXX.	XXXXXX.X	.	.
013	.	.	.	.	.	.	X	.	.	.
014	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
015	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
016	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.X	.	.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L42 - RIESEL, TX	4	4	5	5	6	6	7	7	8	8
WS	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....
017	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.X	.	.
023	.	.	.	.	.	.	.	XX.XXXXXX. XXXX.X	.	.
024	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.X	.	.
028	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.X	.	.
031	.	.	.	.	.	.	X	.	.	.
032	.	.	.	.	.	.	X	.	.	.
033	.	.	.	.	.	.	X	.	.	.
034	.	.	.	.	.	.	X	.	.	.
035	.	.	.	.	.	.	.	X.XXXXXX.XXXXXX.X	.	.
036	.	.	.	.	.	.	.	X.XXXXXX.XXXXXX.X	.	.
037	.	.	.	.	.	.	.	XX.XXXXXX.XXXXXX.X	.	.
038	.	.	.	.	.	.	.	XX.XXXXXX. XXXX.X	.	.
039	.	.	.	.	.	.	.	XX.XXXXXX.XXXXXX.X	.	.
040	.	.	.	.	.	.	.	XX.XXXXXX.XXXXXX.X	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

27 WATERSHEDS

356 STATION YEARS - BREAKPOINT

0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L44 - HASTINGS, NE

	4	4	5	5	6	6	7	7	8	8
RG	....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
RGPA12	.	.	.	.	.	.	XXXXXX.XX	.	.	.
RGPA31	.	XXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.	.
RGPB10	.	.	.	.	.	XXXXXX	XXXXXX	XX	.	.
RGPB23	.	XXXXXX	XXXXX	XXXXX	.	.	.	.	.	.
RGPB25	.	XXXXXX	XXXXX	XXXX	.	.	.	.	.	.
RGPB28	.	XX	XXXXX	XXXXX	XXXX	.	.	.	.	.
RGPB31	.	.	.	.	.	.	XXX.XX	.	.	.
RGPB32	.	XX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.	.
RGPB33	.	XX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.	.
RGPB34	.	.	.	.	.	.	XX.XX	.	.	.
RGPB36	.	XX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.
RGPB38	.	XX	XXXXX	XXXXX	XXXXX	.	.	.	.	.
RGPB39	.	.	.	.	.	.	XXX.XX	.	.	.
RGPC23	.	XX	XXXXX	XXXXX	XXXX	.	.	.	.	.
RGPC24	.	XX	XXXXX	XXXXX	XXXX	.	.	.	.	.
RGPC29	.	XX	.	.	.	.	.	.	.	.
RGPC31	.	XXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.
RGPC40	.	.	.	.	.	.	XXX.XX	.	.	.
RGPC43	.	.	XXXXX	XXXXX	XXXX	.	.	.	.	.
RGPC45	.	XX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.	.
RGPC58	.	.	.	.	.	.	XXXXXX.XX	.	.	.
RGPD31	.	XXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.
RGPD45	.	XX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.
RGPD50	.	.	.	.	X	XXXXX	XX	.	.	.
RGPE30	.	XXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.
RGPG42	.	XXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.
RGPMET	.	.	XXXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.
.....										

27 RAINAGES

463 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
001	.	XX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.
002	.	XX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.
003	.	XXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.
004	.	XX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.
005	.	XX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XX	.	.
006	.	XX	XXXXX	XXXXX	XXXX	.	XXX	XXXXX	XX	.
007	.	XX	XXXXX	XXXXX	XXXX	.	XXX	XXXXX	XX	.
008	.	XX	XXXXX	XXXXX	XXXX	.	XXX	XXXXX	XX	.
009	.	XX	XXXXX	XXXXX	XXXX	X	XXX	XXXXX	XX	.
010	.	XX	XXXXX	XXXXX	XXXX	X	XXX	XXXXX	XX	.
011	.	XX	XXXXX	XXXXX	XXXX	X	XXX	XXXXX	XX	.
012	.	XX	XXXXX	XXXXX	XXXX	.	XXX	XXXXX	XX	.
013	.	XX	XXXXX	XXXXX	XXXX	.	.	.	.	.
014	.	XX	XXXXX	XXXXX	XXXX	.	.	.	.	.
015	.	XX	XXXXX	XXXXX	XXXX	.	.	.	.	.
.....										

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L44 - HASTINGS, NE

	4	4	5	5	6	6	7	7	8	8
WS	.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
016 .	XX.XXXXXX.	XXXXXX.XXXX	.	.	.	.	.	.	.	.
017 .	XX.XXXXXX.	XXXXXX.XXXX	.	.	.	.	.	.	.	.
018 .	XX.XXXXXX.	XXXXXX.XXXX	.	.	.	.	.	.	.	.
019 .	XX.XXXXXX.	XXXXXX.XXXX	.	.	.	.	.	.	.	.
020 .	XX.XXXXXX.	XXXXXX.XXXX	.	.	.	.	.	.	.	.
021 .	XX.XXXXXX.	XXXXXX.XXXX	.	.	.	.	.	.	.	.
022 .	XX.XXXXXX.	XXXXXX.XXXXXX.	XXXX.XXXXXX.XX	.	.	.	.	.	.	.
023 .	.XXXXXX.	XXXXXX.XXXX	.	.	.	.	.	.	.	.
024 .	.XXXXXX.	XXXXXX.XXXX	.	.	.	.	.	.	.	.
025 .	.XXXXXX.	XXXXXX.XXXX	.	.	.	.	.	.	.	.
026 .	.XXXXXX.	XXXXXX.XXXX	.	.	XXXX.XX	.	.	.	.	.
027 .	.XXXXXX.	XXXXXX.XXXX	.	.	XXXX.XX	.	.	.	.	.
028 .	.XXXXXX.	XXXXXX.XXXX	.	.	.	.	.	.	.	.
029 .	.	.	.	.	.	XXX.XX	.	.	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

29 WATERSHEDS

607 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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PAGE 21

L45 - SAFFORD, AZ

	4	4	5	5	6	6	7	7	8	8
RG	.....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
000001	.	.	.	.	.	.	.	X	.	.
000002	.	XX.	XXXXX	.						
000003	.	XX.	XXXXX	.						
000004	.	XX.	XXXXX	.						
000005	.	XX.	XXXXX	.						
000007	.	.	.	.	.	.	.	X	.	.
000009	.	XX.	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	X	.	.
000010	.	.	.	.	.	.	.	X	.	.
000011	.	XX.	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	X	.	.
000012	.	XX.	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	X	.	.
000013	.	.	.	.	.	.	.	X	.	.
000014	.	XX.	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	X	.	.
000015	.	XX.	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	X	.	.
000501	.	XX.	XXXXX	XXXXX	XXXXX	XX	XX.	XXXXX	XXXXX	.
000502	.	.	.	.	.	.	.	X	.	.
000505	.	.	.	.	.	.	.	X	.	.
000507	.	XX.	XXXXX	XXXXX	XXXXX	XX	XX.	XXXXX	XXXXX	.
000510	.	XX.	XXXXX	XXXXX	XXXXX	XX	XX.	XXXXX	XXXXX	X
000513	.	XX.	XXXXX	XXXXX	XXXXX	XX	XX.	XXXXX	XXXXX	X

19 RATINGAGES

445 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5									
001	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXX	.	.	.	.	.	.	.	.
002	.	XX.XXXXXX.XXXX .XXXXX.XXXX .XXXXX.XXXXX.XXXX	.	.	.	.	.	.	.	.
003	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXX	.	.	.	.	.	.	.	.
004	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXX	.	.	.	.	.	.	.	.

## 4 WATERSHEDS

122 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

PAGE 22

L47 - ALBUQUERQUE, NM

	4	4	5	5	6	6	7	7	8	8
RG	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000001 .	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XX	.	.
000002 .	XX.	.	.	.	XXXX.	XXXXXX.	XX	.	.	.
000003 .	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XX	.	.
000004 .	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XX	XX.	.	.
000005 .	XX.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XX	.	.
000007 .	.	.	.	.	.	.	XXXX.	XX	.	.
000008 .	.	.	.	.	.	.	XXX.	XX	.	.
000501 .	XX.	.	.	.	.	.	XXX.	XX	.	.
000502 .	X.XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XX	.	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

9 RAINAGES

194 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
001 .	XX.XXXX	.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXX	.	.	.
002 .	XX.XXXX	.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXXX.	XXXXX	.	.	.
003 .	XX.XXXX	.	XXXXXX.	XXXXXX.	XXXXX	.	XXXXXX.	XXXXX	.	.

3 WATERSHEDS

89 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

12/29/82

PAGE 23

L56 - MOSCOW, ID

	4	4	5	5	6	6	7	7	8	8
RG	.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000001	.	XXXX.XX	.	.	.	.	.	.	.	.
000002	.	XXXX.XX	.	.	.	.	.	.	.	.
000003	.	.	.	.	.	.	.	.	XXXX	.

3 RAINGAGES

16 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
001	.	XXXX.XX	.	.	.	.	.	.	.	.
002	.	XXXX.XXXX	.	.	.	.	.	.	.	.
003	.	.	.	.	.	.	.	.	XXXX	.
004	.	.	.	.	.	.	.	.	XXXX	.

4 WATERSHEDS

22 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L61 - MONTICELLO, IL

	4	4	5	5	6	6	7	7	8	8
RG	.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5									
000001	.	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XX	.						.
000002	.	.	XX.XXXX	.	.	.	.	.	.	.
000003	.	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XX	XX	XX.XXX	.	.	.	.	.
000004	.	.	XX.XXXXXX.XXXXXX.XXXXXX.	XXXXX.XX	X.XXX	.	.	.	.	.
000005	.	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X	.	.	.	.	.	.	.
000006	.	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XX	XX	X.XX	.	.	.	.	.
000007	.	.	.	.	X.XXXXXX.XX	X.XXX	.	.	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

7 RAINGAGES

168 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5.....0.....5									
001	.	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X	.						.
002	.	.	XX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.X	.						.
003	.	.	.	XXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXX	.					.
004	.	.	X.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXX	.						.
011	.	.	.	.	.	.	.	.	X.X	.
012	.	.	.	.	.	.	.	.	X.X	.
021	.	.	.	.	.	.	.	.	X.X	.
022	.	.	.	.	.	.	.	.	.X	.
031	.	.	.	.	.	.	.	.	X.X	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

9 WATERSHEDS

133 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L62 - OXFORD, MS

	4	4	5	5	6	6	7	7	8	8
RG	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....
WC2003	.	.	.	.	.	.	XXXXXX.XX	.	.	.
000001	.	.	.	.	.	.	X.XXXX	.	.	.
000002	.	.	.	.	.	.	X.XXXX	.	.	.
000003	.	.	.	.	.	.	X.XXXX	.	.	.
000004	.	.	.	.	.	.	X.XX	.	.	.
000005	.	.	.	.	.	.	X.XXXX	.	.	.
000006	.	.	.	.	.	.	X.XX	.	.	.
000007	.	.	.	.	.	.	X.XXXX	.	.	.
000008	.	.	.	.	.	.	X.XXXX	.	.	.
000009	.	.	.	.	.	.	X.XX	.	.	.
000010	.	.	.	.	.	.	X.XX	.	.	.
000011	.	.	.	.	.	.	X.XXXX	.	.	.
000012	.	.	.	.	.	.	X.XXXX	.	.	.
000013	.	.	.	.	.	.	X.XXXX	.	.	.
000014	.	.	.	.	.	.	X.XXXX	.	.	.
000015	.	.	.	.	.	.	X.XXXX	.	.	.
000016	.	.	.	.	.	.	X.XX	.	.	.
000017	.	.	.	.	.	.	X.XXXX	.	.	.
000018	.	.	.	.	.	.	X.XXXX	.	.	.
000019	.	.	.	.	.	.	X.XXXX	.	.	.
000020	.	.	.	.	.	.	X.XXXX	.	.	.
000021	.	.	.	.	.	.	X.XXXX	.	.	.
000022	.	.	.	.	.	.	X.XXXX	.	.	.
000023	.	.	.	.	.	.	X.XX	.	.	.
000024	.	.	.	.	.	.	X.XXXX	.	.	.
000025	.	.	.	.	.	.	X.XX	.	.	.
000026	.	.	.	.	.	.	X.XXXX	.	.	.
000027	.	.	.	.	.	.	X.XXXX	.	.	.
000028	.	.	.	.	.	.	X.XX	.	.	.
000029	.	.	.	.	.	.	X.XX	.	.	.
000030	.	.	.	.	.	.	X.XX	.	.	.
000031	.	.	.	.	.	.	X.XXXX	.	.	.
000033	.	.	.	.	.	.	X.XX	.	.	.
000034	.	.	.	.	.	.	X.X	.	.	.
000035	.	.	.	.	.	.	X.X	.	.	.
816001	.	.	.	.	.	.	XX.X	.	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

36 RAINGAGES                  152 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....
001	.	.	.	.	.	.	XX.XXXX	.	.	.
002	.	.	.	.	.	.	XX.XXXX	.	.	.
003	.	.	.	.	.	.	XX.X	.	.	.
004	.	.	.	.	.	.	XX.X	.	.	.
005	.	.	.	.	.	.	XX.XXXX	.	.	.
007	.	.	.	.	.	.	XX.X	.	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L62 - OXFORD, MS

WS	4	4	5	5	6	6	7	7	8	8
.....	0	5	0	5	0	5	0	5	0	5
008	.	.	.	.	.	.	XX.X	.	.	.
010	.	.	.	.	.	.	XX.XXXX	.	.	.
011	.	.	.	.	.	.	X .XXXX	.	.	.
012	.	.	.	.	.	.	XX.X	.	.	.
014	.	.	.	.	.	.	X.XXX X.XX	.	.	.
017	.	.	.	.	.	.	XX.X	.	.	.
018	.	.	.	.	.	.	XX.X	.	.	.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

13 WATERSHEDS

57 STATION YEARS - BREAKPOINT

0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L63 TOMBSTONE, AZ

	4	4	5	5	6	6	7	7	8	8
RG	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5
000001	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000002	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000003	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000004	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000005	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000006	.	.	.	.	.	.	.	XX .	.	.
000007	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000008	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000009	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000010	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000011	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000012	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000013	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000014	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000015	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000016	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000017	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000018	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000019	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000020	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000021	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000022	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000023	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000024	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000025	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000026	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000027	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000028	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000029	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000030	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000031	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000032	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000033	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000034	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000035	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000036	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000037	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000038	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000039	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000040	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000041	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000042	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000043	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000044	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000045	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000046	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000047	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000048	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000049	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L63 - TOMBSTONE, AZ

RG	4	4	5	5	6	6	7	7	8	8
	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5
000050	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000051	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000052	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000053	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000054	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000055	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000056	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000057	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000058	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000059	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000060	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000061	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000062	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000063	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000064	.	.	.	.	.	.	.	XXX.	.	.
000065	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000066	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000067	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000068	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000069	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000070	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000071	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000072	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000073	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000074	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000075	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000076	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000077	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000078	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000079	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000080	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000081	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000082	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000083	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000087	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000088	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000089	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000090	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000091	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000092	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000093	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000094	.	.	.	.	.	.	.	X.XXXXXX.	.	.
000096	.	.	.	.	.	.	.	X.XXXXXX.	.	.
000361	.	.	.	.	.	.	X.XXXXXX.	.	.	.
000384	.	.	.	.	.	.	X.XXXXXX.XXXXXX.	.	.	.
000385	.	.	.	.	.	.	X.XXXXXX.XXXXXX.	.	.	.
000386	.	.	.	.	.	.	X.XXXXXX.XXXXXX.	.	.	.
000395	.	.	.	.	.	.	.	XXXXXX.	.	.
000397	.	.	.	.	.	.	.	.	X.	.

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

PAGE 29

L63 - TOMBSTONE, AZ

	4	4	5	5	6	6	7	7	8	8
RG	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5
000512	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000537	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000560	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000587	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000593	.	.	.	.	.	.	.	XX.	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

103 RAINGAGES

797 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5
001	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
002	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
003	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
004	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
005	.	.	.	.	.	.	.	XXX.XXX	.	.
006	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
007	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
008	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
009	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
010	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
011	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
015	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
101	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.X	.	.
102	.	.	.	.	.	.	.	XXX.XXXXX.XXXXX.X	.	.
103	.	.	.	.	.	.	.	XXX.XXXXX.XXXXX.X	.	.
104	.	.	.	.	.	.	.	XXX.XXXXX.XXXXX.X	.	.
105	.	.	.	.	.	.	.	X.XXXXX.XXXXX.X	.	.
106	.	.	.	.	.	.	.	X.XXXXX.XXXXX.X	.	.
112	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

19 WATERSHEDS

189 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

PAGE 30

L64 - SANTA ROSA, NM

RG	4	4	5	5	6	6	7	7	8	8
000002	.	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....
000004	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
000006	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000008	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000009	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000010	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000012	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000014	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000015	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000016	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000018	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000020	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000021	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000022	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000023	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000024	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000025	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000026	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000028	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000029	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000030	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000033	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000034	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000035	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000037	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000038	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000041	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000042	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000043	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000044	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000045	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000046	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000047	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000049	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000051	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000052	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000053	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000055	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000056	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000057	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000058	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000059	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000061	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000063	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000065	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000066	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000067	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000068	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.
000073	.	.	.	.	.	.	XXX.XXXXXX.	.	.	.

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

12/29/82

PAGE 31

L64 - SANTA ROSA, NM

	4	4	5	5	6	6	7	7	8	8
RG	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000074	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000075	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000076	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000077	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000078	.	.	.	.	.	.	.	XXX.XXXXXY.	.	.
000079	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000080	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000081	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000082	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000083	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000084	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000088	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000089	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000094	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000099	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
000199	.	.	.	.	.	.	.	.	XXXX.	.
000519	.	.	.	.	.	.	.	.	XXXX.	.
000525	.	.	.	.	.	.	.	.	XXX.	.
000563	.	.	.	.	.	.	.	.	XXX.	.
000574	.	.	.	.	.	.	.	.	XXX.	.
.....										

69 RAINGAGES

529 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
001	.	.	.	.	X.XXXXXX.XXXXXX.XXXXXX.XXXXXX.XXX	.	.	.	.	.

1 WATERSHEDS

24 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

12/29/82

PAGE 32

L66 - MOOREFIELD, WV

	4	4	5	5	6	6	7	7	8	8
RG	.....0.....	.....5.....	0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
R01P01	.	.	.	.	.	XXX.XXXXX.XX	.	.	.	.
R02P02	.	.	.	.	.	X.XX	.	.	.	.
R03P03	.	.	.	.	.	XXX.XXXXX.XX	.	.	.	.

3 RAINGAGES

23 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0.....	.....5.....	0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
001	.	.	.	.	.	XXX.XXXXX.XX	.	.	.	.
002	.	.	.	.	.	XXX.XXXXX.XX	.	.	.	.
004	.	.	.	.	.	XXX.XXXXX.XX	.	.	.	.
005	.	.	.	.	.	XXX.XXXXX.XX	.	.	.	.

4 WATERSHEDS

40 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

PAGE 33

L67 - N. DANVILLE, VT

	4	4	5	5	6	6	7	7	8	8
RG	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5
000001	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XXXXXX.XXXXXX.	XXX	.	.	.
000002	.	.	.	.	.	XXX.XXXXXX.XXXXXX.X	.	.	.	.
000003	.	.	.	.	.	X.XXXXXX.XXXXXX.XXXXXX.XXX	.	.	.	.
000004	.	.	.	.	.	X.XXXXXX.XXXXXX.XXXXXX.	.	.	.	.
000005	.	.	.	.	.	X.XXXXXX.XXXXXX.XXXXXX.	.	.	.	.
000006	.	.	.	.	.	.XXXXXX.XXXXXX.XXX	.	.	.	.
000007	.	.	.	.	.	XXX.XXXX.	.	.	.	.
000008	.	.	.	.	.	X.XXXXXX.XXXXXX.XXX	.	.	.	.
000010	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XXXXXX.	.	.	.	.
000011	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XXXXXX.XXXX	.	.	.	.
000012	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XXXXXX.XXXX	.	.	.	.
000015	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XXXX	.	.	.	.
000016	.	.	.	.	.	XXX.XXX	.	.	XXX	.
000018	.	.	.	.	.	X X.XXX	.	.	.	.
000019	.	.	.	.	.	XXX.XXXXXX.XXXXXX.X	.	.	.	.
000020	.	.	.	.	.	X.XXXXXX.XXXXXX.X	.	.	.	.
000021	.	.	.	.	.	X.XXXXXX.XXXXXX.X	.	.	.	.
000022	.	.	.	.	.	.XXXXXX.XXXXXX.X	.	.	.	.
000024	.	.	.	.	.	XX.XXXXXX.XXX	.	.	.	.
000025	.	.	.	.	.	.	XXXX.X	X.XXX	.	.
000029	.	.	.	.	.	.	XXX.XXXXXX.XXX	.	.	.
00006A	.	.	.	.	.	.	.	XXX.	.	.
00020A	.	.	.	.	.	.	XXXXXX.XXX	.	.	.
00022A	.	.	.	.	.	XXX.XX XX.XXX	.	.	.	.
00023A	.	.	.	.	.	.	XXXXXX.XXXXXX.X	.	.	.
00024A	.	.	.	.	.	.	.	XXXXXX.X	.	.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

26 RAINGAGES

331 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5
001	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XXX	.	.	.	.
002	.	.	.	.	.	.XXXXXX.XXXXXX.X	.	.	.	.
003	.	.	.	.	.	X.XXXXXX.XXXXXX.XXX	X.XXXX	.	.	.
004	.	.	.	.	.	X.XXXXXX.XXXXXX.XXX	.	.	.	.
005	.	.	.	.	.	X.XXXXXX.XXXXXX.XXX	.	.	.	.
006	.	.	.	.	.	.	XXX.X	.	.	.
007	.	.	.	.	.	.XXXXXX.XXXXXX.XX	.	.	.	.
008	.	.	.	.	.	.XXXXXX.XXXXXX.XXXXXX.XX	X	.	.	.
009	.	.	.	.	.	.XXXXXX.XXXXXX.XXX	.	.	.	.
010	.	.	.	.	.	.	XXX.XXXXXX.XXX	.	.	.
011	.	.	.	.	.	.	XX.XXXXXX.X	.	.	.
012	.	.	.	.	.	.	XX.XXXXXX.XX	.	.	.
013	.	.	.	.	.	.	X.XXXXXX.XX	.	.	.
014	.	.	.	.	.	.	X.XXX.XX	.	.	.
016	.	.	.	.	.	.	X.XX	.	.	.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

15 WATERSHEDS

167 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L68 - REYNOLDS, ID

RG	4	4	5	5	6	6	7	7	8	8
	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....
012X29	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.	.
012429	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.	.
012529	.	.	.	.	.	.	. XXX.XXXXX.	.	.	.
015X87	.	.	.	.	.	.	. XXX.XXX	.	.	.
015X95	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.	.
015487	.	.	.	.	.	.	. XXX.XXX	.	.	.
015495	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.	.
015587	.	.	.	.	.	.	. XXX.XXX	.	.	.
015595	.	.	.	.	.	.	. XXX.XXXXX.	.	.	.
022X88	.	.	.	.	.	.	. XXX.XXX	.	.	.
022488	.	.	.	.	.	.	. XXX.XXX	.	.	.
022588	.	.	.	.	.	.	. XXX.XXX	.	.	.
023X01	.	.	.	.	.	.	. XXXX.XXXXX.XXXXX.XXXXX.X	.	.	.
023401	.	.	.	.	.	.	. XXXX.XXXXX.XXXXX.XXXXX.X	.	.	.
023501	.	.	.	.	.	.	. XXX.XXXXX.XXXXX.X	.	.	.
024X76	.	.	.	.	.	.	. XXXX.XXXXX.XXXXX.	.	.	.
024476	.	.	.	.	.	.	. XXXX.XXXXX.XXXXX.	.	.	.
024576	.	.	.	.	.	.	. XXX.XXXXX.	.	.	.
028X18	.	.	.	.	.	.	. XXX.XXX	.	.	.
028418	.	.	.	.	.	.	. XXX.XXX	.	.	.
028518	.	.	.	.	.	.	. XXX.XXX	.	.	.
031X48	.	.	.	.	.	.	. XXX.XXXXX.	.	.	.
031448	.	.	.	.	.	.	. XXX.XXXXX.	.	.	.
031548	.	.	.	.	.	.	. XXX.XXXXX.	.	.	.
033X58	.	.	.	.	.	.	. XXX.XXX	.	.	.
033X76	.	.	.	.	.	.	. XXXX.XXXXX.XXXXX.XX	.	.	.
033458	.	.	.	.	.	.	. XXX.XXX	.	.	.
033476	.	.	.	.	.	.	. XXXX.XXXXX.XXXXX.XX	.	.	.
033558	.	.	.	.	.	.	. XXX.XXX	.	.	.
033576	.	.	.	.	.	.	. XXX.XXXXX.XX	.	.	.
035X01	.	.	.	.	.	.	. XXX.XX	.	.	.
035401	.	.	.	.	.	.	. XXX.XX	.	.	.
035501	.	.	.	.	.	.	. XXX.XX	.	.	.
043X41	.	.	.	.	.	.	X.XXXXX.XXXXX.	.	.	.
043441	.	.	.	.	.	.	X.XXXXX.XXXXX.	.	.	.
043541	.	.	.	.	.	.	. XXX.XXXXX.	.	.	.
045X04	.	.	.	.	.	.	X.XXXXX.XXXXX.	.	.	.
045404	.	.	.	.	.	.	X.XXXXX.XXXXX.	.	.	.
045504	.	.	.	.	.	.	. XXX.XXXXX.	.	.	.
047X52	.	.	.	.	.	.	X.XXXXX.XXXXX.	.	.	.
047452	.	.	.	.	.	.	X.XXXXX.XXXXX.	.	.	.
047552	.	.	.	.	.	.	. XXX.XXXXX.	.	.	.
049X61	.	.	.	.	.	.	X.XXXXX.XXXXX.	.	.	.
049461	.	.	.	.	.	.	X.XXXXX.XXXXX.	.	.	.
049561	.	.	.	.	.	.	. XXX.XXXXX.	.	.	.
053X93	.	.	.	.	.	.	. XXX.XXXXX.XXXXX.X	.	.	.
053493	.	.	.	.	.	.	. XXX.XXXXX.XXXXX.X	.	.	.
053593	.	.	.	.	.	.	. XXX.XXXXX.XXXXX.X	.	.	.
054X23	.	.	.	.	.	.	X.XXXXX.XXXXX.	.	.	.

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L68 - REYNOLDS, ID

RG	4	4	5	5	6	6	7	7	8	8
	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5
054423	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
054523	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
055X88	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
055488	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
055588	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
057X96	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.	.	.
057496	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.	.	.
057596	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
059X71	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
059471	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
059571	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
061X25	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
061425	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
061525	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
072X67	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
072467	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
072567	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
074X12	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
074412	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
074512	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
075X89	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
075489	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
075589	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
076X59	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.	.	.
076459	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.	.	.
076559	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
078X14	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
078414	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
078514	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
079X47	.	.	.	.	.	.	.	XX . X	.	.
079447	.	.	.	.	.	.	.	XX . X	.	.
079547	.	.	.	.	.	.	.	XX . X	.	.
083X82	.	.	.	.	.	.	X.XX	.	.	.
083X92	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
083482	.	.	.	.	.	.	X.XX	.	.	.
083492	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
083592	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
086X52	.	.	.	.	.	.	.	.	X	.
086452	.	.	.	.	.	.	.	.	X	.
086552	.	.	.	.	.	.	.	.	X	.
088X65	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.	.	.
088465	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.	.	.
088565	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
095X10	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.	.	.
095410	.	.	.	.	.	.	XXX.XXXXXX.	XXXXXX.	.	.
095510	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.
097X00	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
097400	.	.	.	.	.	.	X.XXXXXX.	XXXXXX.	.	.
097500	.	.	.	.	.	.	.	XXX.XXXXXX.	.	.

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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PAGE 36

L68 - REYNOLDS, ID

	4	4	5	5	6	6	7	7	8	8
RG	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....	.....0.....	.....5.....
098X97	.	.	.	.	.	.	.	XX	.	.
098497	.	.	.	.	.	.	.	XX	.	.
098597	.	.	.	.	.	.	.	XX	.	.
106X36	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
106436	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
106536	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
108X04	.	.	.	.	.	.	X	XXXXX.XXXXX.	.	.
108404	.	.	.	.	.	.	X	XXXXX.XXXXX.	.	.
108504	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
114X19	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.
114419	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.
114519	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
116X91	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.XXXXX.X	.	.
116491	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.XXXXX.X	.	.
116591	.	.	.	.	.	.	.	XXX.XXXXX.XXXXX.X	.	.
119X03	.	.	.	.	.	.	X	XXXXX.XXXXX.	.	.
119403	.	.	.	.	.	.	X	XXXXX.XXXXX.	.	.
119503	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
124X84	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.
124484	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.
124584	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
126X97	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.
126497	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.
126597	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
127X07	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.XXXXX.X	.	.
127407	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.XXXXX.X	.	.
127507	.	.	.	.	.	.	.	XXX.XXXXX.XXXXX.X	.	.
128X87	.	.	.	.	.	.	X	XXXXX.XXXXX.	.	.
128487	.	.	.	.	.	.	X	XXXXX.XXXXX.	.	.
128587	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
135X19	.	.	.	.	.	.	.	.	XX	.
135419	.	.	.	.	.	.	.	.	XX	.
135519	.	.	.	.	.	.	.	.	XX	.
138X31	.	.	.	.	.	.	.	.	XXXXX.	.
138431	.	.	.	.	.	.	.	.	XXXXX.	.
138531	.	.	.	.	.	.	.	.	XXXXX.	.
144X62	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.
144462	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.
144562	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
145X37	.	.	.	.	.	.	.	X.XXXXX.XXXXX.	.	.
145437	.	.	.	.	.	.	.	X.XXXXX.XXXXX.	.	.
145537	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
147X35	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.
147435	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.	.	.
147535	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
154X64	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
154464	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
154564	.	.	.	.	.	.	.	XXX.XXXXX.	.	.
155X07	.	.	.	.	.	.	.	XXXX.XXXXX.XXXXX.XXXXX.X	.	.

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L68 - REYNOLDS, ID

	4	4	5	5	6	6	7	7	8	8
RG	....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
155X94	.	.	.	.	.	.	.	XX	.	.
155407	.	.	.	.	.	.	XXXX	XXXXX	XXXXX	XXXXX
155494	.	.	.	.	.	.	.	XX	.	.
155507	.	.	.	.	.	.	.	XXX	XXXXX	XXXXX
155594	.	.	.	.	.	.	.	XX	.	.
156X68	.	.	.	.	.	.	X	XXXXX	XXXXX	.
156468	.	.	.	.	.	.	X	XXXXX	XXXXX	.
156568	.	.	.	.	.	.	.	XXX	XXXXX	.
163X20	.	.	.	.	.	.	XXXX	XXXXX	XXXXX	.
163X35	.	.	.	.	.	.	.	X	XXXXX	.
163420	.	.	.	.	.	.	XXXX	XXXXX	XXXXX	.
163435	.	.	.	.	.	.	.	X	XXXXX	.
163520	.	.	.	.	.	.	.	XXX	XXXXX	.
163535	.	.	.	.	.	.	.	X	XXXXX	.
165X02	.	.	.	.	.	.	.	XX	XXXXX	.
165402	.	.	.	.	.	.	.	XX	XXXXX	.
165502	.	.	.	.	.	.	.	XX	XXXXX	.
166X94	.	.	.	.	.	.	.	XXX	XXXXX	.
166494	.	.	.	.	.	.	.	XXX	XXXXX	.
166594	.	.	.	.	.	.	.	XXX	XXXXX	.
167X07	.	.	.	.	.	.	XXXX	XXXXX	XXXXX	.
167407	.	.	.	.	.	.	XXXX	XXXXX	XXXXX	.
167507	.	.	.	.	.	.	.	XXX	XXXXX	.
174X17	.	.	.	.	.	.	XXXX	XXXXX	XXXXX	.
174417	.	.	.	.	.	.	XXXX	XXXXX	XXXXX	.
174517	.	.	.	.	.	.	.	XXX	XXXXX	.
176X07	.	.	.	.	.	.	XXXX	XXXXX	XXXXX	X
176X14	.	.	.	.	.	.	.	.	XXXXX	.
176407	.	.	.	.	.	.	XXXX	XXXXX	XXXXX	X
176414	.	.	.	.	.	.	.	.	XXXXX	.
176507	.	.	.	.	.	.	.	XXX	XXXXX	XXXXX
176514	.	.	.	.	.	.	.	.	XXXXX	.
.....										

179 RAINGAGES

1,740 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
001	.	.	.	.	.	.	XXX	XXXXX	XXXXX	X
002	.	.	.	.	.	.	XX	XXXXX	XXXXX	X
003	.	.	.	.	.	.	X	XXXXX	XXXXX	X
004	.	.	.	.	.	.	.	XXXXX	XXXXX	X
011	.	.	.	.	.	.	.	XXX	XXXXX	XX
012	.	.	.	.	.	.	.	XXX	XX	X
013	.	.	.	.	.	.	X	X	XXXXX	XXXXX
014	.	.	.	.	.	.	.	XXX	XXXXX	X
015	.	.	.	.	.	.	X	XXXXX	XXXXX	X
016	.	.	.	.	.	.	.	.	XXX	.
.....										

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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PAGE 38

L68 - REYNOLDS, ID

	4	4	5	5	6	6	7	7	8	8
WS	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5
021	.	.	.	.	.	.	.	X.XXXXX.	.	.
022	.	.	.	.	.	.	.	X.XXXXX.	.	.
033	.	.	.	.	.	.	.	XXX.XXX	.	.
034	.	.	.	.	.	.	.	XXX.XXX	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

14 WATERSHEDS

157 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

PAGE 39

L69 - CHICKASHA, OK

RG	4	4	5	5	6	6	7	7	8	8
000001	.	.	.	.	.	.	.	.	.	.
000002	.	.	.	.	.	.	.	.	.	.
000003	.	.	.	.	.	.	.	.	.	.
000004	.	.	.	.	.	.	.	.	.	.
000005	.	.	.	.	.	.	.	.	.	.
000006	.	.	.	.	.	.	.	.	.	.
000007	.	.	.	.	.	.	.	.	.	.
000008	.	.	.	.	.	.	.	.	.	.
000009	.	.	.	.	.	.	.	.	.	.
000010	.	.	.	.	.	.	.	.	.	.
000011	.	.	.	.	.	.	.	.	.	.
000012	.	.	.	.	.	.	.	.	.	.
000013	.	.	.	.	.	.	.	.	.	.
000014	.	.	.	.	.	.	.	.	.	.
000015	.	.	.	.	.	.	.	.	.	.
000016	.	.	.	.	.	.	.	.	.	.
000017	.	.	.	.	.	.	.	.	.	.
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000027	.	.	.	.	.	.	.	.	.	.
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000041	.	.	.	.	.	.	.	.	.	.
000042	.	.	.	.	.	.	.	.	.	.
000043	.	.	.	.	.	.	.	.	.	.
000044	.	.	.	.	.	.	.	.	.	.
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000046	.	.	.	.	.	.	.	.	.	.
000047	.	.	.	.	.	.	.	.	.	.
000048	.	.	.	.	.	.	.	.	.	.
000049	.	.	.	.	.	.	.	.	.	.
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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

PAGE 40

L69 - CHICKASHA, OK

RG	4	4	5	5	6	6	7	7	8	8	
000050	.	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5
000051	.	.	.	.	.	.	.	.	.	.	.
000052	.	.	.	.	.	.	.	.	.	.	.
000053	.	.	.	.	.	.	.	.	.	.	.
000054	.	.	.	.	.	.	.	.	.	.	.
000055	.	.	.	.	.	.	.	.	.	.	.
000056	.	.	.	.	.	.	.	.	.	.	.
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000058	.	.	.	.	.	.	.	.	.	.	.
000059	.	.	.	.	.	.	.	.	.	.	.
000060	.	.	.	.	.	.	.	.	.	.	.
000061	.	.	.	.	.	.	.	.	.	.	.
000062	.	.	.	.	.	.	.	.	.	.	.
000063	.	.	.	.	.	.	.	.	.	.	.
000064	.	.	.	.	.	.	.	.	.	.	.
000065	.	.	.	.	.	.	.	.	.	.	.
000066	.	.	.	.	.	.	.	.	.	.	.
000067	.	.	.	.	.	.	.	.	.	.	.
000068	.	.	.	.	.	.	.	.	.	.	.
000069	.	.	.	.	.	.	.	.	.	.	.
000070	.	.	.	.	.	.	.	.	.	.	.
000071	.	.	.	.	.	.	.	.	.	.	.
000072	.	.	.	.	.	.	.	.	.	.	.
000073	.	.	.	.	.	.	.	.	.	.	.
000074	.	.	.	.	.	.	.	.	.	.	.
000075	.	.	.	.	.	.	.	.	.	.	.
000076	.	.	.	.	.	.	.	.	.	.	.
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000081	.	.	.	.	.	.	.	.	.	.	.
000082	.	.	.	.	.	.	.	.	.	.	.
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000091	.	.	.	.	.	.	.	.	.	.	.
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000095	.	.	.	.	.	.	.	.	.	.	.
000096	.	.	.	.	.	.	.	.	.	.	.
000097	.	.	.	.	.	.	.	.	.	.	.
000098	.	.	.	.	.	.	.	.	.	.	.

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L69 - CHICKASHA, OK

RG	4	4	5	5	6	6	7	7	8	8
000099	.	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0
000100	.	.	.	.	.	.	.	.	.	.
000101	.	.	.	.	.	.	.	.	.	.
000102	.	.	.	.	.	.	.	.	.	.
000103	.	.	.	.	.	.	.	.	.	.
000104	.	.	.	.	.	.	.	.	.	.
000105	.	.	.	.	.	.	.	.	.	.
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000109	.	.	.	.	.	.	.	.	.	.
000110	.	.	.	.	.	.	.	.	.	.
000111	.	.	.	.	.	.	.	.	.	.
000112	.	.	.	.	.	.	.	.	.	.
000113	.	.	.	.	.	.	.	.	.	.
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000135	.	.	.	.	.	.	.	.	.	.
000136	.	.	.	.	.	.	.	.	.	.
000137	.	.	.	.	.	.	.	.	.	.
000138	.	.	.	.	.	.	.	.	.	.
000139	.	.	.	.	.	.	.	.	.	.
000140	.	.	.	.	.	.	.	.	.	.
000141	.	.	.	.	.	.	.	.	.	.
000142	.	.	.	.	.	.	.	.	.	.
000143	.	.	.	.	.	.	.	.	.	.
000144	.	.	.	.	.	.	.	.	.	.
000145	.	.	.	.	.	.	.	.	.	.
000146	.	.	.	.	.	.	.	.	.	.
000147	.	.	.	.	.	.	.	.	.	.

## SUMMARY OF THE ARS WATER DATA BANK

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WATER DATA LABORATORY

PAGE 42

L69 - CHICKASHA, OK

RG	4	4	5	5	6	6	7	7	8	8
000148	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5
000149	.	.	.	.	.	.	.	.	.	.
000150	.	.	.	.	.	.	.	.	.	.
000151	.	.	.	.	.	.	.	.	.	.
000152	.	.	.	.	.	.	.	.	.	.
000153	.	.	.	.	.	.	.	.	.	.
000154	.	.	.	.	.	.	.	.	.	.
000155	.	.	.	.	.	.	.	.	.	.
000156	.	.	.	.	.	.	.	.	.	.
000157	.	.	.	.	.	.	.	.	.	.
000158	.	.	.	.	.	.	.	.	.	.
000159	.	.	.	.	.	.	.	.	.	.
000160	.	.	.	.	.	.	.	.	.	.
000161	.	.	.	.	.	.	.	.	.	.
000162	.	.	.	.	.	.	.	.	.	.
000163	.	.	.	.	.	.	.	.	.	.
000164	.	.	.	.	.	.	.	.	.	.
000165	.	.	.	.	.	.	.	.	.	.
000166	.	.	.	.	.	.	.	.	.	.
000167	.	.	.	.	.	.	.	.	.	.
000168	.	.	.	.	.	.	.	.	.	.
000169	.	.	.	.	.	.	.	.	.	.
000170	.	.	.	.	.	.	.	.	.	.
000171	.	.	.	.	.	.	.	.	.	.
000172	.	.	.	.	.	.	.	.	.	.
000173	.	.	.	.	.	.	.	.	.	.
000174	.	.	.	.	.	.	.	.	.	.
000175	.	.	.	.	.	.	.	.	.	.
000176	.	.	.	.	.	.	.	.	.	.
000177	.	.	.	.	.	.	.	.	.	.
000178	.	.	.	.	.	.	.	.	.	.
000179	.	.	.	.	.	.	.	.	.	.
000180	.	.	.	.	.	.	.	.	.	.
000181	.	.	.	.	.	.	.	.	.	.
000182	.	.	.	.	.	.	.	.	.	.
000183	.	.	.	.	.	.	.	.	.	.
000184	.	.	.	.	.	.	.	.	.	.
000185	.	.	.	.	.	.	D.	DDDDD.DDDDD.DD	.	.
000186	.	.	.	.	.	.	.	DDDDD.DDDDD.DD	.	.
000187	.	.	.	.	.	.	.	XXXXX.XXXXX.DD	.	.
000188	.	.	.	.	.	.	.	DDDDD.DDDDD.DD	.	.
000189	.	.	.	.	.	.	.	DDDDD.DDDD	.	.
000190	.	.	.	.	.	.	.	DDDD.DDDD	.	.
000191	.	.	.	.	.	.	.	DDDD.DDDD	.	.
000192	.	.	.	.	.	.	.	DDDD.DDDD	.	.
000193	.	.	.	.	.	.	.	DDDD.DDDDD.DD	.	.
000194	.	.	.	.	.	.	.	DDDD.DDDDD.DD	.	.
000195	.	.	.	.	.	.	.	XXXXX.XXXXX.DD	.	.
000196	.	.	.	.	.	.	.	DDDD.DDDDD.DD	.	.

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L69 - CHICKASHA, OK

RG	4	4	5	5	6	6	7	7	8	8
000197	.	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0
000198	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000199	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000200	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000201	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000202	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000203	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000204	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000205	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000206	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000207	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000208	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000209	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000210	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000211	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000212	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000213	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000214	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000215	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000216	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000217	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000218	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000219	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000220	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000221	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000222	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000223	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000224	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000225	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000226	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000227	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000228	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000229	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
000230	.	.....	.....	.....	.....	.....	.....	.....	.....	.....

230 RAINGAGES

WS	4	4	5	5	6	6	7	7	8	8
001	.	.....0	.....5	.....0	.....5	.....0	.....5	.....0	.....5	.....0
002	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
004	.	.....	.....	.....	.....	.....	.....	.....	.....	.....
005	.	.....	.....	.....	.....	.....	XX	XXXXXX	XXXXXX	XX
006	.	.....	.....	.....	.....	.....	XX	XXXXXX	.....	.....
007	.	.....	.....	.....	.....	.....	XXXXXX	XXXXXX	XXXXXX	XX
008	.	.....	.....	.....	.....	.....	XXXXXX	XXXXXX	XXXXXX	.
009	.	.....	.....	.....	.....	.....	XXXXXX	XXXXXX	XXXXXX	.

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L69 - CHICKASHA, OK

WS	4	4	5	5	6	6	7	7	8	8
WS	.....0	.....5	....0	....5	....0	....5	....0	....5	....0	....5
010	.	.	.	.	.	.	XXXX.XXXXXX.XXXXXX.XX	.	.	.
011	.	.	.	.	.	.	XXXX.XXXXXX.XXXXXX.XX	.	.	.
012	.	.	.	.	.	.	XXXX.XXXXXX.XXXX .	.	.	.
013	.	.	.	.	.	.	XXXX.XXXXXX.XXXXXX.XX	.	.	.
014	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.	.
015	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.	.
016	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.	.
017	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.XX	.	.	.
018	.	.	.	.	.	.	XX.XXXXXX.XXXX .	.	.	.
019	.	.	.	.	.	.	XX.XXXXXX.XXXXXX.XX	.	.	.
027	.	.	.	.	.	.	.XXXXX.XXXXXX.XX	.	.	.
028	.	.	.	.	.	.	.	XXX.XX	.	.
030	.	.	.	.	.	.	X.XXXXXX.XXXXXX.X	.	.	.
031	.	.	.	.	.	.	X XX. XXXX.XXXX .	.	.	.
032	.	.	.	.	.	.	X.XXXXXX.XXXXXX.X	.	.	.
033	.	.	.	.	.	.	X.XXXXXX.XXXXXX.X	.	.	.
034	.	.	.	.	.	.	X.XXXXXX.XXXXXX.X	.	.	.
035	.	.	.	.	.	.	X.XXXXXX.XXXXXX.X	.	.	.
036	.	.	.	.	.	.	X.XXXXXX.XXXXXX.X	.	.	.
037	.	.	.	.	.	.	X.XXXXXX.XXXXXX.X	.	.	.
042	.	.	.	.	.	.	.XXXXX.XXXXXX.XXX	.	.	.
043	.	.	.	.	.	.	.XXXXX.XXXXXX.XXX	.	.	.
044	.	.	.	.	.	.	.XXXXX.XXXXXX.XXX	.	.	.
045	.	.	.	.	.	.	.XXXXX.XXXXXX.XXX	.	.	.
049	.	.	.	.	.	.	.	.XXXXX.XXX	.	.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

33 WATERSHEDS

422 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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## L70 - SONORA, TX

RG	4	4	5	5	6	6	7	7	8	8
000001	.....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
000002	.	.	.	.	.	.	.	XXX.XX	.	.
000004	.	.	.	.	.	.	XXX.XX	.	.	.
000005	.	.	.	.	.	.	XXX.XX	.	.	.
000006	.	.	.	.	.	.	XXX.XX	.	.	.
000007	.	.	.	.	.	.	XXX.XX	.	.	.
000008	.	.	.	.	.	.	XXX.XX	.	.	.
000009	.	.	.	.	.	.	XXX.XX	.	.	.
00001A	.	.	.	.	.	.	XXX.XX	.	.	.
000010	.	.	.	.	.	.	XXX.XX	.	.	.
000011	.	.	.	.	.	.	XXX.XX	.	.	.
000012	.	.	.	.	.	.	XXX.XX	.	.	.
000013	.	.	.	.	.	.	XXX.XX	.	.	.
000015	.	.	.	.	.	.	XXX.XX	.	.	.
000016	.	.	.	.	.	.	XXX.XX	.	.	.
000017	.	.	.	.	.	.	XXX.XX	.	.	.
000018	.	.	.	.	.	.	XXX.XX	.	.	.
000019	.	.	.	.	.	.	XXX.XX	.	.	.
000020	.	.	.	.	.	.	XXX.XX	.	.	.
00003A	.	.	.	.	.	.	XXX.XX	.	.	.

## 20 RAINGAGES

100 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

WS	4	4	5	5	6	6	7	7	8	8
001	.....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
002	.	.	.	.	.	.	XX .XX	.	.	.
003	.	.	.	.	.	.	XXX.XX	.	.	.
004	.	.	.	.	.	.	XX .XX	.	.	.
005	.	.	.	.	.	.	XXX.X	.	.	.
006	.	.	.	.	.	.	XXX.XX	.	.	.
007	.	.	.	.	.	.	XX .XX	.	.	.
008	.	.	.	.	.	.	XX .XX	.	.	.
009	.	.	.	.	.	.	XX .XX	.	.	.
010	.	.	.	.	.	.	XX .XX	.	.	.
011	.	.	.	.	.	.	XX .XX	.	.	.
012	.	.	.	.	.	.	XX .XX	.	.	.
013	.	.	.	.	.	.	XX .XX	.	.	.
014	.	.	.	.	.	.	XX .XX	.	.	.

## 14 WATERSHEDS

56 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L71 - TREYNOR, IA

	4	4	5	5	6	6	7	7	8	8
RG	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000101	.	.	.	.	.	XXX.XXXXX.XXX	.	.	.	.
000105	.	.	.	.	.	XXX.XXXXX.XXX	.	.	.	.
000111	.	.	.	.	.	XX.XXXXX.XXXXX.XXX	.	.	.	.
000112	.	.	.	.	.	XX.XXXXX.XXXXX.XXX	.	.	.	.
000113	.	.	.	.	.	XX.XXXXX.XXXXX.XXX	.	.	.	.
000115	.	.	.	.	.	XX.XXXXX.XXXXX.XXX	.	.	.	.
000116	.	.	.	.	.	XX.XXXXX.XXXXX.XXX	.	.	.	.
000117	.	.	.	.	.	XX.XXXXX.XXXXX.XXX	.	.	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

8 RAINGAGES

112 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
001	.	.	.	.	.	XX.XXXXX.XXXXX.XXX	.	.	.	.
002	.	.	.	.	.	XX.XXXXX.XXXXX.XXX	.	.	.	.
003	.	.	.	.	.	XX.XXXXX.XXXXX.XXX	.	.	.	.
004	.	.	.	.	.	XX.XXXXX.XXXXX.XXX	.	.	.	.
005	.	.	.	.	.	XXX.XXXXX.XXX	.	.	.	.

5 WATERSHEDS

71 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

PAGE 47

L72 - COTTONWOOD, SD

	4	4	5	5	6	6	7	7	8	8
RG	.....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
0000H2	.	.	.	.	.	.	DDD.DD	.	.	.
0000L2	.	.	.	.	.	.	DDD.DD	.	.	.
0000M1	.	.	.	.	.	.	DDD.DD	.	.	.

3 RAINGAGES

0 STATION YEARS - BREAKPOINT  
15 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	.....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
001	.	.	.	.	.	.	XXX.XX	.	.	.
002	.	.	.	.	.	.	XXX.XX	.	.	.
005	.	.	.	.	.	.	XX .XX	.	.	.

3 WATERSHEDS

14 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L73 - FORT STAUNTON, NM

	4	4	5	5	6	6	7	7	8	8
RG	....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
000001	.	:	:	:	:	.	.XXXXXX.	.XXXXXX.X	.	.
000002	.	:	:	:	:	.	.XXXXXX.	.XXXXXX.X	.	.

2 RAINGAGES                    22 STATION YEARS - BREAKPOINT  
                                  0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
001	.	:	:	:	:	.	X	X.XXXXXX.X	.	.
002	.	:	:	:	:	.	X	X.XX X.X	.	.

2 WATERSHEDS                 14 STATION YEARS - BREAKPOINT  
                                  0 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L74 - TIFTON, GA

RG	4	4	5	5	6	6	7	7	8	8
000001	.	0	.....	5	0	.....	5	0	.....	5
000002	.	.	.	.	.	.	.	XXX.XXXXXX.XXX	.	.
000003	.	.	.	.	.	.	.	XXX.XXXXXX.XXX	.	.
000004	.	.	.	.	.	.	.	XX .	.	.
000005	.	.	.	.	.	.	.	XX .	.	.
000006	.	.	.	.	.	.	.	XXX.X	.	.
000007	.	.	.	.	.	.	.	XX .	.	.
000008	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000009	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000010	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000011	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000012	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000013	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000014	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000015	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000016	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000017	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000018	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000019	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000020	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000021	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000022	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000023	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000024	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000025	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000026	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000027	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000028	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000029	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000030	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000031	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000032	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000033	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000034	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000035	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000036	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000037	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000038	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000039	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000040	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000041	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000042	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000043	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000044	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000045	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000046	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000047	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000048	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.
000049	.	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

PAGE 50

L74 - TIFTON, GA

	4	4	5	5	6	6	7	7	8	8
RG	....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
000050	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.	.
000051	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.	.
000052	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.	.
000053	.	.	.	.	.	.	XX.XXXXXX.XXXXXX.	.	.	.
000054	.	.	.	.	.	.	XX.XXXXXX.XXXXXX.	.	.	.
000055	.	.	.	.	.	.	XX.XXXXXX.XXXXXX.	.	.	.
000056	.	.	.	.	.	.	XX.XXXXXX.XXXXXX.	.	.	.
000057	.	.	.	.	.	.	XX.XXXXXX.XXXXXX.	.	.	.
000058	.	.	.	.	.	.	XX.XXXXXX.XXXXXX.	.	.	.
000059	.	.	.	.	.	.	XXXXXX.XXXXXX.	.	.	.
000060	.	.	.	.	.	.	.	XXX.	.	.
000061	.	.	.	.	.	.	XXX.	.	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

61 RAINGAGES

716 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0	....5	....0	....5	....0	....5	....0	....5	....0	....5
002	.	.	.	.	.	.	XXXXXX.XXXXXX.	.	.	.
003	.	.	.	.	.	.	X.XXXXXX.XXXXXX.	.	.	.
004	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.	.
005	.	.	.	.	.	.	XX.XXXXXX.XXXXXX.	.	.	.
006	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.	.
007	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.	.
008	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.	.
009	.	.	.	.	.	.	XXX.XXXXXX.XXXXXX.	.	.	.
	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

8 WATERSHEDS

98 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

SUMMARY OF THE ARS WATER DATA BANK  
 12/29/82                    WATER DATA LABORATORY

PAGE 51

L75 - AHOSKIE, NC

	4	4	5	5	6	6	7	7	8	8
RG	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
WTD001	.	.	.	.	.	.	.	DDD.DD	.	.
WTD002	.	.	.	.	.	.	.	DDD.DD	.	.
WTD003	.	.	.	.	.	.	.	DDD.DD	.	.
WTD004	.	.	.	.	.	.	.	DDD.DD	.	.

4 RAINGAGES

0 STATION YEARS - BREAKPOINT  
 20 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
001	.	.	.	.	.	.	.	DDD.DD	.	.
002	.	.	.	.	.	.	.	DDD.DD	.	.
003	.	.	.	.	.	.	.	DDD.DD	.	.
004	.	.	.	.	.	.	.	DDD.DD	.	.

4 WATERSHEDS

0 STATION YEARS - BREAKPOINT  
 20 STATION YEARS - DAILY

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SUMMARY OF THE ARS WATER DATA BANK  
WATER DATA LABORATORY

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L77 - HAWAII

	4	4	5	5	6	6	7	7	8	8
RG	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
000001	.	.	.	.	.	.	.	.	XXXX.XXX	.
000003	.	.	.	.	.	.	.	XXXX.XX	.	.
000006	.	.	.	.	.	.	.	X.XX	.	.

3 RAINGAGES

16 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY

	4	4	5	5	6	6	7	7	8	8
WS	....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....	5.....0.....
001	.	.	.	.	.	.	.	XXX.XXX	.	.
003	.	.	.	.	.	.	.	XXXX.XX	.	.
006	.	.	.	.	.	.	.	X.XX	.	.

3 WATERSHEDS

15 STATION YEARS - BREAKPOINT  
0 STATION YEARS - DAILY







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